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THE HOUSE OF REPRESENTATIVES,

DURING THE

THIRD SESSION OF THE THIRTY-SEVENTH CONGRESS.

1862-'63.

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Volume	1	Part of No. 1.
Volume	2	Part of No. 1.
Volume	3	Part of No. 1.
Volume	4	Part of No. 1, and Nos. 2 to 21, inclusive.
Volume	5	Nos. 23 to 51, inclusive.
Volume	6	Nos. 53 to 62, inclusive.
Volume	7	Nos. 64 to 77, inclusive.
Volume	8	Nos. 79 to 85, inclusive.
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OF THE

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I.	C. Goodyear	5,536
ladia rubber, Hollow articles of	C. Goodyear	0,000
Mouldings, Machinery for making	A. T. Serrell	3,575
P.		
Planters, Seed	L. Moore	5, 522
Ploughs	8. Hall	5,529
Presecs	D. Dick	5,840
8.		
Scoop and elevator	E. Morris	5,966
W .		
Wheels, Annealing and cooling cast iron car	A. Whitney	5, 531

LETTER

PROM

THE COMMISSIONER OF PATENTS,

TRANSMITTING

HIS ANNUAL REPORT FOR THE YEAR 1962.

FERRUARY 5, 1863.—Laid on the table, and ordered to be printed.

United States Patent Office, January 30, 1863.

Size: The Commissioner of Patents, by the 14th section of the act of March 3, 1837, is required to lay before Congress a detailed statement of the expenditures and payments by him made from said (patent) fund, a list of all patents which shall have been granted during the preceding year, designated under proper heads, the subjects of such patents, and furnishing an alphabetical list of the patentees, with their places of residence, a list of all patents which shall have become public property during the same period, together with such other information of the state and condition of the Patent Office as may be useful to Congress or to the public.

In conformity with these requirements of law, I submit the following:

No. 1.

2.0. 2.			
Number of applications during the year 1862 Number of patents granted, including designs and reissues Number of caveats filed Number of applications for extension of patents Number of patents extended Number of patents expired 31st December, 1862	••••	3,5	38 21 24 41 22 48
Of the patents granted, there were:			
To citizens of the United States	• • • •	3,4	78
To subjects of Great Britain			39
To subjects of the French Empire			33
To subjects of other foreign governments	• • • •		11
Total	••••	3,6	521
No. 2.	=		
Statement of money received during the year, viz s	,		
On applications for patents, reissues, &c	\$ 153,8	18	00
For copies and for recording assignments	11,0		
patents	50,8	355	49
	9167		

No. 3.

Statement of expenditures from the patent fund.		
Salaries	\$77,4 04	93
Contingent expenses	55,057	98
Temporary clerks	44,462	
Withdrawals	5.140	00
Refunding money paid by mistake	570	00
Judges in appeal cases	175	00
Total	182,810	39
No. 4.		
Statement of the condition of the patent fund.		
Amount to the credit of the patent fund January 1, 1862	\$5,4 16	55
Amount paid in during the year	215,754	99
Total	221,171	54
Deduct expenditures during the same period	182,810	
Leaving in the treasury January 1, 1863, the sum of	38,361	15

No. 5.

Table exhibiting the business of the office for twenty-six years, ending 31st December, 1862.

Years.	Applications filed.	Caveats filed.	Patents issu'd.	Cash received.	Cash expended.
1837			435	\$29, 289 08	\$33,506 98
1838			520	42, 123 54	37,402 10
1839			425	37,260 00	34, 543 51
1840	765	228	473	38,056 51	39,020 6
1841	847	312	495	40,413 01	52,666 8
1842	761	291	517	36,505 68	31, 241 46
1843	819	315	531	35,315 81	30,776 90
1844	1,045	380	502	42,509 26	36,344 7
1845		452	502	51,076 14	39,395 6
1846	1,272	448	619	50, 264 16	46, 158 7
1847		533	572	63, 111 19	41,878 3
1848		607 595	660	67,576 69	58,905 84
1849		602	1,070 995	80,752 78	77,716 4
1850		760	869	86,927 05	80, 100 9
1851		996		95,738 61	86,916 93
1852	2,639	901	1,020 958	112,056 34	95, 916 9
1853		868	1,902	121,527 45	132,869 8
1854		906	2,024	163,789 84 216,459 35	167, 146 33 179, 540 33
1855		1.024	2,502	192,588 02	199, 931 0
1856	1 .′	1,010	2,910	196, 132 01	211,582 0
1857		943	3,710	203, 716 16	193, 193 74
1858		1,097	4,538	245.942 15	210, 278 4
1860		1,084	4,819	256, 352 59	252, 820 80
1861		700	3,340	137.354 44	221, 491 9
1862		824	3, 320	215, 754 99	182,810 3

By act of Congress of March 2, 1861, the Commissioner of Patents was authorized to print ten copies of the descriptions and of the drawings of the patents issued by the office. After a trial of eight months the work was discontinued on account of the expense, and the section of the law authorizing the printing was subsequently repealed. During the past year I have ordered correct and well digested abstracts of the patents to be prepared by an experienced examiner in the office, with the claims and reduced copies of the drawings attached, which accompany this report. The publication of the same will supply a great want now felt by the inventors of the country. The reports of 1859 and 1860 were issued in a style which reflected credit upon the office, and were of great value to all interested in the improvements in the arts and manufactures. The usual appropriation for the preparation of the report of 1861 would enable the office to complete the series for which there are daily demands.

I take the liberty of inviting the attention of Congress to the other matters treated of in my report for 1862, to which I have nothing to add at present.

Very respectfully, your obedient servant,

D. P. HOLLOWAY, Commissioner.

Hon. GALUSHA A. GROW, Speaker of the House of Representatives.

ALPHABETICAL LIST OF PERSONS WHOSE PATENTS FOR INVENTIONS AND DISCOVERIES HAVE EXPIRED DURING THE YEAR 1862.

Ī				
No.	Name of patentee.	Invention or discovery.	Date.	Clear.
5417 5418 5418 5513 5513 5513 5457 5457 5457 5457 5457 5457 5457	Abbott, John Aringston, Boggen & Adama.) Adams, Isato. Adams, Sannel Addren, Manosh Addren, Eitshn F Aldren, Tenrer Allen, Horatio Allen, Horatio Allen, William, Jr Allen, William, Jr Allen, William, Jr Allen, William, Jr Allen, William, Jr Allen, William, Jr Allen, Dannes B Allen, William, Jr Allen, William, Jr Allen, Dannes B Andrews, Eacklel O. P Anthony, Danny & Co. (See W. L. Banderson.) Arnold, Addison	Hose, making Axies for carriages Axies for carriages Blowers for carriages Blowers for transces Propelling vessels Cut-off Tobacco leaves, machinery for cleaning Harpono news, machinery for cleaning Harpono is machinery for cleaning Fastening and operating window blinds From his, manifecture of straightening railroad Iron, machinery for estraightening railroad Rudder-head, spring clutch applied to a	Jun. 25, 1946. Mar. 1, 1948. April 8, 1948. Aug. 29, 1948. Aug. 29, 1948. Aug. 29, 1948. April 4, 1948. April 4, 1948. Ang. 29, 1948. Ang. 29, 1948. Ang. 29, 1948. Ang. 29, 1948. May. 2, 1948.	
	Arnold, Job Arnold, State Hill & Arnold, Arnold, Revenith, George A. (See Walter Hunt.) Arnetin, Authory H. Ayret, Elisha. Ayret, Elsea. Bublit, Issae.	Horse power, method of applying governor to. Freezen, ice cream Bollers, steam locomotive Bollers, steam, water door for Gold, machinery for separating	Sept. 12, 1948	
5617 5715 5662 5906 5906 5764	Baker, O. B. Foster or Dancy J. Baker, G. B. Baker, Island. Baker, Nathan Baker, Vincent Baldwin, Cryma sasignor to J. & E. Baldwin. Baldwin, M. W. (See Lyman & Baldwin.) Baldwin, K. W., and A. S. Lyman Baldwin, Stephen.	Brick presses Chair sectors Chair sectors Cultrivators Cultrivators Bedsteads, folding Creckfors, machine for cutting and stamping Rakes, borney Washing machines	June 6, 1948 Bept, 12, 1848 Aug. 12, 1848 July 11, 1848 Mov. 7, 1848 Bept, 12, 1848 Bept, 12, 1848	XVIII XVIII XVIII XVIII
5555 5555 5555 5555 5555 5555 5555 5555 5555	Ball, S. D. (See Patton & Ball.) Ball, William Balland, Stophen Ballon, Otis D., administrator of A. G. Bartlett Barriord, William Bartow, Volliam Barrow, Hondon Barriow, A. C. & Co. (See Avoltos Richmond.)	Faucets Churra, samospherio Dollis, grain Lorna, knithin needles of Furnaces, air hesting Pumps Composition for pastel vat used in dyeling	Feb. 1, 1846. May 16, 1849. Dec. 26, 1848. Sopt. 12, 1848. Feb. 29, 1846. Dec. 5, 1846.	
2665 2665 2665	Institut, A. G. (See Our B. Ballon.) Bearford, Russall D. Bearford, Abrasall Batson, John W.	Lathos for turning hoe handles, &e. Billiard tables, cushons for biginous for windows, catches, &e.	Doc. 26, 1848; antedated June 4, 48. Aug. 1, 1848; antedated June 4, 48.	XXII.

Persons whose patents for inventions have expired.

Class	TEEN		(4) (4) (4) (4) (4) (4) (4) (4) (4) (4)		
Date.	7 23, 1848 1. 24, 1848 10 6, 1848 7 30, 1848		Aug. 29, 1848. Aug. 29, 1848. Aug. 21, 1848. Aug. 21, 1848. April 22, 1851; England Dec. 16, 48. Oct. 12, 1852; England Nov. 21, 48.	April 16, 1941 1846 189t 26, 1848 Aug. 22, 1948 Dec. 12, 1848 June 6, 1848	Bept. 26, 1948. Nov. 14, 1948. Depr. 19, 1948. Dec. 5, 1948. Oct. 17, 1948. Oct. 19, 1948. Oct. 19, 1948. In 11, 1941. From 11, 1941. June 6, 1948.
	May Oot. June May				
Invention or discovery.	Threshing machines Saddles Furnaces for steam-bollers Gates, aluics for locks	Mounting harness and dis- Turning, apparatus for Present self-cupping, repeating Pirearn, self-cupping, self-cupping, repeating Awis and other similar tools, handles for Mills, rid sermospheric Mills, rid sermospheric Instrument sharpener, universal	Gins, cotton Gins, cotton Stoves, air-consistence Boythe fast-colling tapered motallic rods Sugar-boiling apparatus	Wrenches, scrow Composition of state pencils Looms, pickers for Furnees, boiler and other Dough, breaking and kneeding Planes, joiners	Hemp, machinery for breaking and dressing. Size, buckwhest, manufacture of. Spark arrestors Wheel, arrestors Wheel, car. Irons, smoothing. Fence, fron hurdle. Drilling machines, rook Eugines, fisam, low-pressure, &c. Vise, bench Bardies, joiners', books for
Name of patentee.	Butta, Jehiel. Caldwell, Robert. Carpenter, Daniel. Carpenter, Sanda C., and Wm. A. Poters; Peters saugnor	Case, Charmery W. Case, Channey W. Class, Mino M. Chamberlain, Dexter H., assignor to Thos. J. Whittemore. Chaples, Nathan Chaples, Nathan Chaples, Nathan Chaples, W. Z. W. and J. W. Cheek, Mose D. Cheeney, William H. (See Elijah P. Penniman.)	Clark, G. W. (See Butterfield & Clarke.) Clark, Henry Clark, Henry G. Clark, Henry G. Clark, Henry G. Clark, William Clary, William W. (See Butterfield & Clarke.)	Cote, Loring Cote, Loring Cohen, Lewis J. Cole, James Cole, James Cole, James Cole, James Cole, James Cole, James Coller, C. S. (See Sampson & Coller, C. S.	Colyrer, Lewis W. Moot, Colyrer, Lewis W. A. Comstock, Wm. A. Comelly, Patrick. Cook, James, assigner to Lyman Kingsley Coost, Marty Ann B. Coons, Marthins P. Coons, Marthins P. Coordes, Josiath.
°Ž	5600 5872 5621 5611	\$500 \$500 \$500 \$500 \$500 \$500 \$500 \$500	550 5740 5704 5830 5830 5315	Digiti:	1000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

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July 18 1846 Cont. D. 1848 Cont. D. 1848 Cont. C	Nov. 7, 1848	мау 9, 1848. Ост. 10, 1848. Dec. 19, 1848.	June 6, 1848 June 13, 1848 Oct. 17, 1848 Oct. 17, 1848 Oct. 17, 1848 Ang. 29, 1848 Ang. 29, 1848 Ang. 29, 1848 Ang. 29, 1848 Ang. 29, 1848 Ang. 29, 1848 Ang. 19, 1848 An
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Pripri, muchhary for cutting Coulivour point Leading for reading Sow mile for reasoning to consider Wood, including for relating asswing splitting Sorrew-threading machine Sorrews, wood, machines for turning heads of Furnaces for holdit Sures, arresters Sures, counting rooms, &c., for preserving in case of fire Barkes, machinery for jointing Sorres, counting rooms, &c., for preserving in case of fire Brick presses Coppes shouthing, &c., machinery for cutting and punching Coppes shouthing, &c., machinery for cutting and punching	Suspenders and shoulder braces	Gutta-percha fabrica, preparing, in imitation of patent leather Type moulds. Bell telegraph	Cutters, straw Cutters, meat Cutters, meat Cutters, meat Presses Presses Presses Presses Presses Presses Presses Presses Presses Presses Presses Presses Presses Pale goods, repling machine for Machinery for making bullets Pancets, molasses Poughts inferrements Proportion in anothinery for rubbing as Bolders, steem, galvania regulator for Corn-shelters Corn-shelters Britise for car Fish hooks, spring Corn-shelters Fish hooks, spring Corn-shelters Fish hooks, spring Corn-shelters Fish hooks, spring Corn-shelters Fish hooks, spring Corn-shelters Fish hooks, spring Survey shelts Fish hooks, spring doors Fish machine for bending sheet Famicens Cirvises Fisher for veindow sash Corrige bodies, hanging Distilling and rectifying spirits
9470 (Grano, Zounea M. J. 1969 (Granola, Rubert, Jr. 1968) (Granola, Rubert, Jr. 1969) (Granola, Rubert, Jr. 1969) (Granola, Samind Croughline, Cander B. 1960) (Granola, John, assignor to H. L. Plerson 1968) (Granola, John, assignor to H. L. Plerson 1968) (Granola, John, assignor to H. L. Plerson 1968) (Granola, John, assignor to H. L. Plerson 1968) (Granola, James, F. 1969) (Granola, James,			
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Persons whose patents for inventions have expired.

Name of patentee.	Invention or discovery.	Date.	Clark.
	Stoves, cooking.	ജന്	XIV.
	Pens, metallic Saw-mills	Aug. 29, 1848. Oct. 31, 1848.	XVIII. XIV.
	Chimney caps	Dec. 12, 1848.	X V.
	Percussion caps, self-feeding machine for charging.	ផ	X
	Pumps for raising water	May 23, 1848.	ijF
	Stencillug, plates for	April 18, 1848	XVIII
	Fusicaers, Stad.	1	H
B. Bailey	Driller, rock.	Dec. 5, 1848.	Ħ;
	Latch, door, oblique	Dec. 26, 1848	i i
	Sanding paper, machinery for	5,	Ħ
***************************************	Sanding paper, sieves for	May 30, 1848	H.
	Stoves, cooking	8	AVELL
	Probable	S	XII
• • • • • • • • • • • • • • • • • • • •	Clover-seed, machine for hulling		н,
	Bunea machinery for entting	Aug. 10, 1848	XIA
	Cogwhoels, &c., machinery for cutting.	6	X
	Harness saddle	7	XXI
	Stoves, cooking	April 11, 1848	```
bertson	Wood, cutting irregular forms in	82	X
	Riving and dressing shingles	May 29, 1841.	XIX.
Rodman & Gibba.	F.08507168	»	*
	Shoe pegs, preparing	61	X
	Engines, steam, valves of, arranging and combining	Aug. 10, 1848 Feb. 15, 1848	××
urd. (See Alter & Gillespie.) (See Gruver & Gillford.)		•	
(See Toder, Graver & Guntora.)	Ohronometers, escanemonts for	Dec. 12, 1848	VIII
	Saddle trees for carts.	6	XVI
	Fastener and sash bearer		-
	Nail, wrought, machinery		ä
United Others	Turning irregular shapes, machinery for	61	XIV.
Inen	Pinning irregular forms	Nov. 21, 1848	XIV.
	Metals, machinery for planishing and hommering	Oct. 3, 1848	#

opend	(Rordon, B. M. J. F., and W. H. Gordon.)	Sturch, anumoture of points	Mov. 98 1848.		Ë
27.78	Granger, R. D.	Blowes, ecoking.			δ'
2000	Grant Grant W. L. Gordon	Casting rolls	Dec. 96 1846		d:
23	Oray, Jamos A	Plano-Tortes	18,	Di antedated Sept. 87, '48.	XVIII
68390	Green, W. K. II	Jecoust	Nov. 96, 1946		XIV.
8199	Gregg, Isaac	Pressor, brick	6, 1848.		ij
2830	Griffin, Zachurlah .	Mills for grinding	ż		
9133	Grilloy, Chus. T. (See Ellis & Grilloy.)	Toutement laws and laws	0701 01 11-14		}
9166	Griston of Horney (See Smith & Grissold)	Transporte and tambe, computing	▲pru 15, 1996.		
RADO		Childrators	Rent 96 1848		•
3	Gruver, E. and John Gillford	Threshing and cleaning clover-geed, machinery for	Jan 12 1848	12 1848	1 🛏
	Gruver, E. (See Toder, Graver & Gilliford.)				ì
1881	Gulld, Harvey	Hemp brakes	Sept. 26, 1848.		Ħ'
500	Huertler, Jacob	Threshing machines.	18 V 19 19 19 19 19 19 19 19 19 19 19 19 19		-1 p
1869	Hall Traper (3	Talegraph & nosts for	Sent 10 1848		1
200	Hall J. Richon	Painting on translatent authors	Mar 98 1848		X ALL
2630	Hall Lovi	Saddle frame	Oct. 3 1848		×
2696	Hall, William		Aug. 1, 1848.		Ė
5835	Humann Augustus	Spark-arresters	Oct. 10, 1848.		ķ
22.88	Hamilton, James	near sawing	April 13, 1859;	England June 1, 1848.	XIV.
			to Thos. H. I	arber.	
5553	Hammond, Isase		May 9, 1848.		XXI
5711	Hanchott, M. W.	:	Ang. 15, 1848.		H
2427	Hanson, David D .		Feb. 1, 1848		Ħ'
2717	Harper, L. A.	Straw-cutters	Aug. 15, 1848		ı,
200	HARTE, JOBODD, Jr.	, mad-inchon	Feb. 22, 1545.		
8750	Ilbrit, Albr. L.	Tuyeres	A 74, 1046.		1
2000	Hothamar B A II	Threshing and clearing making for	Aug. 1, 1030		Ανιμ. Τ
2440	Haven Wm D and D Minholte	A PROMISE AND COMMING STREET, MACHINES IOT	Web 5, 1966.		45
2692	Hawel Russell I.	handnos	Amril 18 1848		xviii
5743	Hawley, Abel	Excavator, floating	Aug. 29, 1848.		*
2826	Hawley, E. E.	Cultivators, hand	Dec. 5, 1848		H
2801	Howorth, James and John	Looms	Oct. 31, 1848		Ħ
200	Hayas, John P.	Chimney cape	Oct. 10, 1848		>
0263	Hecker John H	Lionore annerates for drawing and measuring	Dec. 19 1948		12
6199	_	Barja	c		XVII
ize	Hemphill, F. M., and R. H.		8		X
98	Hemphill, F. M., and R.	_	g		Ä
By by			z:	• • • • • • • • • • • • • • • • • • • •	YI,
2501	Hill, A. V. and R. Arnold	:	₫)		XVI
3 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		m-engines	April 25, 1848.		, VI
0.00	Hinman David	Politically enverted for transmitting names	ર્ડ ≃		, ,
C 5418					įÞ
555	Hollister, Thot. sastenor to L. W. Co.		May 9, 1848.		ㅂ
			•		}
e					

Persons whose patents for inventions have expired.

	1			
Ão.	Name of patentee.	Invention or discovery.	Data.	Class.
5790		Buckles, harness		XVI
5805 5805 5805 5805		Windiass, ship's. Water, method of raising	April 25, 1848 Sept. 26, 1848	i x
2 2 2 2 2 2 2 2	Horn, Edwin B. H., assignors to D. C. Moorboad	Lemp fountains of glass, mends for making argand. Magneto-electric machine for giving shocks.	Aug. 1, 1848. April 11, 1848.	VIII.
9	Howard, Benona, (See L	Manufacture of wire haddles	0-4 11 1941	E
E	Howe, James K	Vessels, theory of construction of	161	#
16138 25138		Sewing-machine . Bucklos, harness.	Jan. 20, 1857; England July 26, 48	
278	_	Tillers, method of attaching		AIL
5500	Hungerford, Spencer.	Furnaces, boller Cartridge, method of attaching hall to a wooden	Ang. 15, 1848.	7
57 <u>5</u>	_	Ball, loaded	Aug. 10, 1848	XIX
533	Hurst, Cornelius	Presses, steam cotton	Aug. 22, 1848	X
35	Isham, Joseph G.	Sand Daber	April 25, 1848.	
676	_	Process of making steel, &c.	Oct. 2, 1949; England Nov. 2, 48	Ħ
88 E	Jackson, Timothy D.	Metals, sheet, alloys for	Oct. 31, 1848.	ip
5748	_	Traps, method of setting steel	į	xxii
55.53		Rakes, horse	က	H
2667	_	Threshing machines	July 18, 1848	HÞ
200	_	Filler stop-cock.	12	. X
8	Johnson, Benjamin L	Blowers, furnaces, &co.	4, 1848	XI
200	Johnson, Churles F	Telegraphs, electric.	May 16, 1848.	T A
3	Johnson, W. H., and Thos.	Churns, atmospherie	jo	<u>-</u>
25	34	Boots, cutting		ZAZ
33	Jones, John A. and Alfred F.	Candies, macune for dipping	May 16, 1848	. T.
280.50	Jones, Joseph	Boring machines		XIV.
SH2	Jones, Seneca 8.	Sausage stuffers		XVII
ng n	Judan, Direct S. (See Pardeo & Judson.)	Window-salan, pulleys lof	June 13, 1045	4
2	Judson, Lyman. (See Jam	Denseintes of notices and sode manufacture of	Jen. 95 1849	2
	_			•
2	Keliope, Edward, administ	Wool pickerя		Ħ
503	Kellegg, Lansing	Locks, guards or tumblers for	2	Ħ
5		Millatones	ęŝ	X
ŝ	-	Nprings, door	Juno 27, 1848	Ħ

KKI	다디지>FH		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	KY KY HYY KI	XV XV XV XV XV XV XV XV XV XV XV XV XV X
May 9, 1846 Replication (MB Aug. 1, 1846 May 10, 1946	Sopt. 19, 1948. Sopt. 19, 1848. April 18, 1848. Sopt. 12, 1848. Mar. 28, 1848.	Aug. 15, 1948 Feb. 1, 1948 Feb. 1, 1948 Sopt. 20, 1948 Sopt. 19, 1948 June 13, 1948 Sopt. 20, 1848 Aug. 22, 1848	June 27, 1848 Sept. 26, 1848 Cet. 10, 1848 Oct. 31, 1848 May 2, 1848 Dec. 26, 1848 June 36, 1848 June 18, 1848 Oct. 17, 1848 Oct. 17, 1848 Sept. 19, 1848	July 18, 1948. Aug. 23, 1948. Aug. 29, 1948. July 3, 1849; England May 9, 48. Oct. 34, 1848. Feb. 22, 1848. Feb. 27, 1848. Oct. 17, 1848.	April 18, 1848 Oct. 31, 1848 Oct. 12, 1848 Dec. 12, 1848 Dec. 19, 1848 Mag. 29, 1848 Sopt. 18, 1848 May. 2, 1848
Anchors, upper floor of. Look powder-proof. Stones, unchinery for dressing.	Locks and recutchoous Hummer, steam. Ponce posts, method of fastening wire to Driens grain. Paper, machinery for cutting and arranging. Cars, railroad, running gear of	Lock, door, divided bolt. Spark: arresters. Shadis, space for fitues of abset water space boliers Rail, contround. Staves, rived, mechinery for planing. Shuttles, weavers' Washing machines. Ram, hydraulic.	Bedatead fastenings Bedateads cuting-screws on rails of Moulders flaaks. Telegraph wires, insulating supports for Bellows, mittie Plus, method of employing centrifical force in casting of from Plus corresponds of employing centrifical force in casting of tron Garments, drughing and meanring Animals, trugs for Penholders and wiles, founds and twisting Penholders and miles, fountain	Evaporators and condensers. A xee, &c., machinery for dressing Stoves, cooking. Live spindles and filers. Class morting Bell temporable Sugar making Wheels, car. Curtain, suspension, window	Books, &c., machinery for trimming Filers for roving, &c. Filers for roving, &c. Frietting presens Frietting presens Salls, manufacture of canvass for Salls, manufacture of canvass for Spalls, dead foor Spring door.
Kont, Joseph C. See Ottiwell & Kant.) Kollah, Postina Kopina, Postina Kopina, Postina Kopina, Postina Fillian John	Beave M. Ph		Lowis, Lundane, Ose Journou or Lowis, Lowis, Spencer Lowis, Spencer Livingston, Roggen & Adams Lowingston, Roggen & Adams Lowingston, Roggen & Adams Lowy John H Luca, Charles Lucas, Alan B Lucas, Alan B Lyncas, Alan	Lynch, Edward Lynch, Edward Mackey, John Mackey, T. S McLardey, William, and Joseph Lowis Magoun, Joseph, assignor to New England Glass Co- Mallett, E. J Mayor, Chat. De, mud E. Brafin ; Brafin sasignor to Mayor Many William Y Manden, George H Manden, George H Manden, George H	gnor to R. Smith

Persons whose pakends for inventions have expired.

Ko.	Name of patentee.	Invention or discovery.	Date.	Class
5741	McLaughlin, John and Thomas G.	Motion, converting rectilines into rotary	Aug. 29, 1848.	i i
25	Merrick, Solyman.	Punch, revolving spring	Fob. 8, 1948	
266	Merrick, Solyman Merrill, Thomas C	Wrenches, screw	Aug. 15, 1848 July 11, 1848	X X
383	Motcalf, W. W.	Ploughs		-
983	Mitchell, Sir Thomas L.	Propelling vessels	July 5, 1853; England Nov. 5, '48.	<u> </u>
25	Mix, John	Spouls	14, 1848	- -
33.3	Monaghan, R. E.	Yeas and nays, modes of taking.	ź	XX
5559	Moody, Zenns R.	Doors, weather strips for		H.
35	Morris Edmind	Lateling for fastening doors.	ġ,	###
33	Moscley, Thomas W. H.	Fasteners, seah	Şœŧ	<u> </u>
2636	Mott, Jordan L.	Castings, process of chilling.	June 13, 1848.	<u> </u>
200	Mott, Jordan L.	Stoves, cooking	Aug. 22, 1848	≻
2075	Moury, W. G. R. (See Bonen & Moury.)	Windlasses	Mar 98 1848	ХШ
	New England Glass Company. (See Joseph Magoun.)			
2867	Nichols, Caroline C.	Flowers, manufacture of artificial	Oct. 17, 1848	XXI.
	Nicols, Gustavus A.	Locomotives	April 25, 1848.	75
	Norfolk, E. L., S. Standloy, and J. A. Marden.	LOOMS	Feb. 22, 1848.	::::::::::::::::::::::::::::::::::::::
	North, William B.	Presses, cotton	June 13, 1848.	Ħ
283	North, William B.	Mills for grinding	Oct. 3, 1848	慧一
	Norton, Falkner J	Horse nowers		
	Norton, Lowis	Mills for grinding	Oct. 3, 1948.	XIII
ge g	Nutting, Rufus, 2d.	Organ planos.	Feb. 8, 1848.	XVIII.
	Ogle, Joseph	King brick	May 9 1848	X
- /	Oldroyd, William	Odometers		H
900	Oreutt, Eloager	Kilns, lime		## -
	Oreutt, Lysander A.	Dionaha	Doc. 20, 1848	÷-
	Ottiwell, William, and J. C. Kent	Doors weather atriba for	May 16 1848	* ×
2012	Overton, R. Carlton	LAMBIUMICKS, INDES FOR FAISING	_	
	Paddock, David	Mills for grinding	Nov. 28, 1848.	Ħ.
- 61 - 61 - 61 - 61 - 61 - 61 - 61 - 61	Paine, Thomas D	Mills, saw, eireular, portable	July 16, 1841.	XXIII.
5713	Pardee, I., and I. Judson.	Staves, machinery for Jointing	May 15, 1848	X
56	Furker, T. H.	Heating apartments	Aug. 1, 1848	``
5643	Parkhurst, 8. R.	Curding machines	June 20, 1846	1

	×	- 독 다 다 다 다 다 다 다 다 다 다 다 다 다 다 다 다 다 다		H K H H
7. 1988 1988 1988 1988 1988 1988 1988 1988	19, 1848	5 19 19 19 19 19 19 19 19 19 19 19 19 19		3, 1848 31, 1848 30, 1848 26, 1848
	Sopt	April Mar. Peb. Bept. Bept. Feb. Aug. April April	FOR THE PROPERTY OF THE PROPER	Sept Coct
Pine, boat sechinedoen machine double or linder Prince, and an election due for Coulierance, makine multi and a kieloon due for Guille conting. Shingle machine. Il arresting machine. I for conting. Shingle door Windlasee, abjor Planter, seed. Grunne, modelle. Doveting, gatare-joint, machine for cutting. Mai-bage, fattening.	Fings, machine for cutting paper Supporters, spine-abdominal.	Planters, seed. Mostro power, method of employing water for condonsing steam significant property. Westing machines Westing machines Hammer, claims Spinning, machines for Tables, actually, a	Winnowing machines Bloomery, fire, closed Loeis for doors Nall, got doors Dividers, or mousuring compuses Pantshous straps, &c., fastening for Wathing machines	Load, method of manufacturing sheet Bloopeging machines Raddator Hadges for doors, &c. Ours, rulivad
Parks, Strathum, Jr. andgnor to S. P. Chase Patton, Thomas Patton, Dummer Patton, Julia M., and S. D. Ball Patton, Julia M. Prose, Francis S. Prose, Francis S. Prose, Transis B. Prose, Transis B. Prose, Transis B. Prose, Transis B. Pretro, Charles. Perform Charles. Perform Charles. Perform William Perform William Perform William D. Perform William D. Perform William A. (See Sanda G. Curponter.)	Pengeot, Peter and George. Phelps, George M. (See Kneeland and Phelps.) Phelps, John W.	Perroon, Jacob Perroon, Jacob Perroon, Jacob Prison, Joseph P Porter, Stophen Porter, Stophen Porter, Stophen Pratt, Daniel R Pratt, Daniel R Pratt, John M	Reip, Afred H. (See William G. Young.) Remington, George B. Remton, James, and J. H. Grano. Richards, Ohnries, J. H. Branch, Charles, J. Hilliam Richards, Charles, and N. Thorn Rider, W. W. Rider, W. W.	Robertson, John. Robinson, Joel. Robinson, Robert. Robinson, Gharles H. Robison, Gharles H.

Persons whose patents for inventions have expired.

ŝ	Name of patentee.	Invention or discovery.	Date.	Class
5612 5612 5442	Rodman, Samuel Rodman, Samuel Roc, Edward R. Rocers, William,	Chimneys, construction of factory. Lamps Telegraph manipulations Holow ware, moulding.	July 11, 1846 Oct. 17, 1846 May 30, 1846 Feb. 8, 1846	VIII.
2015		Cutters, straw Axe, machinery for dressing		니티누
288	Root, James Roos, W. and W. E. Butter Ross, W. wad W. E. Butter	Sther, appearable for administering. Storomotives, tenders for Soloministering.	Oct. 10, 1848. May 16, 1848. Jan. 25, 1848.	
		Pesanties Ichthycolla, manufacture of		#E
		Vessels, method of fleering Pavements, substrata for . Telegraph, domestic	12.5	
	Rutter, Wm. H. (See B. Sabbuton, Alfred	Machines, briek	1848	X.
		Scales for Weighing	, 2 , 5	i E
200	Schiev, John Schned Thomas	time, foller, cotton. Enginee, steam, rotary	Aug. 24; 1848.	X
25.58 28.68 28.68		Found of rubbing surfaces for regulating abreston. Driers, grain	May 21, 1850; England, Nov. 23, '48. Sept. 26, 1848.	X ×
		Froegers, cream	ಣ ಕ	<u> </u>
5845		Shot plug Propaller, ducke-foot	Nov. 7, 1848.	
		Bocks and phions	June 27, 1848. Nov. 28, 1948.	H H
		Spinning, wheels for	Oct. 10, 1848	ĦĖ.
	Shelobarger, Bonjamin	Hartowa		н.
5778 5778 848		Trap, fly Power, motive, method of controlling. Shellert, corn.	ង្គង្គង	間
25		Machine for sticking pins into paper Springs, method of preserving shape of, in the process of tempering	Sopt. 30, 1841. Doc. 19, 1848.	##
2448 2448 2608	Smith, Edwin. Smith, E. J., and H. Griswold	Burtes. Burtes. Burtes. Ploughs, hill-side Ploughs,	Feb. 15, 1848. July 85, 1848. April 25, 1848	 P.HH

to Benona Haward
Definement
Shingles, machinery for sawing.
Grain, machinery for separating straw from Cloth, manufacture of clastic.
Umbrellas and parasols, locking
Draining and blanching sugar
Springs, combination of, with back chain of carts, &c.
Drills, dentists'
Evaporators, furnaces for
Drings, carriage, combined
Drien grain
Drien
i
Files,
Rallroad switch, self-acting.
Cotton batting, sixing and drying.
Faucets, molasses
1
Shellert corn
Boiling and steaming, cooking utensils for
Vessell, increasing speed of
Gauges, steam and vacuum
Bee-hives
_
Wheels, water
Trouble descriptions of the section
Lamps
_
Swing A fred
Wood cooking by wests heat of fron farmages
DOG AA
tinges, sustaining, opening, cosmig and merching window-blinds
Pipes or tubes of lead,
Machines, smut.
Sattery, Honting

Persons whose patents for inventions have expired.

Machino, sewing. Engines, stoam, rotary.	2	g E
	Sept.	
	Met in a	725
Grain, drying, klins for Bricks	Juno	*
Seraphines Orimps, boots	July 5,	XVIII
Wool, mashinery for compressing fleeces of	Feb. 8,	-
Mochines, shingle	33	
ntonnery, spunning	June.	ij ···
Soales, platform	Sept.	XIX
Machiner, rivet	Ä	
Wheels and abutos, water	200	
Pipe, from machinery for welding	Aug. 1, 1848	Ħ
Water, raising, apparata for Backets, raising and tilting	25	
Spooms menufacture of	K	
Preseut, brick.	May	XV.
Clay, tempering		
	Dec 12	
Brooms, making, machinery for	Feb. 15,	· XVII.
Machines, threshing	SSI	<u> </u>
	P. P.	
Refrigerators	. 19 19	XXII
Charms Frans, whost	May 16, 1 June 16, 1	
Fastenors, window-blind	Feb. 29	##
Pipo, couplings for	June 27,	i i
Pegs, wooden, machinery for making	Nov. 28, 1848	· XX
		June 27, Nov. 28, July 8,

XXXI. XVII.		
April 24, 1841 Nov. 14, 1944 Jan. 18, 1948 Bept. ft, 1948	Feb. 1, 1846 Oct. 39, 1848 Oct. 30, 1848 May 23, 1848 May 18, 1848 May 18, 1848 June 27, 1848 Peb. 1, 1848 June 5, 1848	Oct. 94, 1946 Dec. 56, 1846 Brit. 20, 1849 April 18, 1849 April 18, 1849 April 18, 1849 April 18, 1848 April 18, 1848 April 19, 1848 April 11, 1848 April 11, 1848 April 11, 1848 April 11, 1848 April 11, 1848 April 11, 1848 April 11, 1848 April 11, 1848 April 20, 1859; England Dec. 9, 48. April 20, 1859; England Dec. 9, 48. April 20, 1859; England Dec. 9, 48.
Heligas, tens, fron, canstruction of Shirs, planting, machines for Crimps, boot Axiotree.	Knitting, machinery for cutting Paper, machinery for cutting Gate, machinery for cutting Gate, machiner for cutting Separators, grain Combin, machinery for dreading Mischales, brick. Sloves, grates for Sloves, grates for Sloves, machinery for rolling	Piano-forte action. Vice bench. When bench. When bench. When bench. When bench. When bench. When bench. When bench. When bench. When shower folding. Saw-mills, tall blocks of. Unber, carding, machinery for Unber, carding, machinery for Unber, carding, machinery for When the whole well bench for When the whole when beliefs, &c. Furnaces for steam bollegs, &c. Plants or steam bollegs, &c. Plants or seam bollegs, &c.
2004 Whithir Agutes 2003 Whither Welcome 2412 White Comman 2013 Whitey, Comman 2013 Whitey, Comban 2014 Whitey	more, Took or control of the control	Winslow, John F. (See Vangen & Winslow.) Winslow, Sebb E. (See Vangen & Winslow.) Winslow, Sebb E. (See Vangen & Winslow.) Sepo Wise, John J. (See Vangen & Winslow.) Sept Wood, George. (See Vangen & Wight, Charles D. Sept Wright, Charles D. Sept Wright, Gao. L. Sept Wright, Samuel . Sept Wright, Samuel . Sept Wright, Samuel . Sept Wright, William Erands X. Sept Wright, William Erands X. Sept Wright, William Sept Wins. Franck X. Sept Wright, William Sept Wins. Sept Wright, William Sept Woder, James andgror to William Young. Sept Young, James, andgror to A. H. Redie.



ALPHABETICAL LIST OF PERSONS WHOSE PATENTS FOR DESIGNS HAVE EXPIRED DURING THE YEAR 1862.

No.	Patentee,	Design.	Date.	
£.		Fireplaces, portable	August 28, 1848.	8
2 6	Ames, Winslow Serion to Androws & Divon	Stoves and theplace	August 28, 18	Į,
69	rs to Cresson. Stewart & Peterson.	Stoves, cooking	3	30
88		Forks and spoons, handles.		<u>x</u>
713	_	Stoves, cooking		Ŧ.
11	nor to Blanchard, Tarbell & Co	Stoves, parlor	May 30, 12	3. 3.
140	_	Clock frames	December 11, 19	2. c
2 6	Common or William of the A. A. Palmer	Stoves, cooking, ovens for		F 9
2	Contract to C D Contract	Stores, cooking	September 4, 1	į a
8	Grane Breed & Co	Coffing metallic	3	6 a
7	mor to Crane Breed & Co	Burial cases	ĵ	3
ğ	nry A	Cases, daguerreotype.	7.27	1848
8	Fay, Henry C.	Stove		en te-
				1848
8	Fowler, Minard II., and Enoch Jacobs.	Rallings, iron	ส์	1848
9	Fulion, Calvin, assignor to McClure, Bedell & Barry	Stove plates	.	zi c
9	Caruner, Joseph	Forks, table	3	60
2 8	Granust, Joseph, ussignor to Lambon, Goodnow & Co.	A DIVER BULL TOTAL	December 23, 1	000
200	Gibbs O W. seeden to North Cutter & North	Stuven and the second s	į	9
3 5	Gibbs Samuel W assignor to Skinner & Rockhors	Stowers, cooking	3,8	į
2.5	Gibbs Samuel W. assigned to Samuel & Double Co.	Stove plates ornamenting		1848
Ę	Glenson, Edward.	Castery (abl)	ber 12,	8
8	Gorham, John	Spoung	9	848
[69 	Harris, C., and P. W. Zoiner	Stoves, coal	ន	<u>T</u>
3.5	Hanibraner, John, and Henry Wass.	Stoves		ž o
749	Agails, C., and A. W. Zouner, essaggine to A. Ditturey	Stoves cooking	1	9
7:18	Harris, Conrad, and Paul William Zoiner	Stoves, box, six plates.	=	<u>a</u>
747	Harris, Conrad, and Paul William Zoiner.	Stoves, parlor, to burn coal	Ξ	194 194
£	Harris, Conrad, and Pa	Stoves, parlor, to burn wood	er 11,	8 6
35.5	Hayden, Hiram W	Dagnerrootypes and other mats, grnamenting	.	Š
	Hodgett, George.	Water-coolers		848
239	-	Stoves, coal	8	
S.		Trade-marks	ě	1848
1. 58		Stoves, caboose, ships'		18, 1848.
3:		Clock fronts	<u>-</u>	1848
ě	Mills, Clark	Stoves, cooking	July	20.3
7		Statue, equestrian.	CI and	1 2
750		Covers, steam-tube and hot-air	October 27, 1	1 2
		Birds, sowing	May 30,	2

October 30, 1844. July 31, 1844. Cocober 30, 1844. January 5, 1846. January 5, 1846. January 12, 1846. January 22, 1846. January 22, 1846. January 23, 1846. January 23, 1846. May 30, 1846. May 30, 1846. May 30, 1846. May 30, 1846. May 30, 1846. May 30, 1846. May 30, 1846. May 30, 1846. May 1, 1846. May 1, 1846. May 1, 1846. May 1, 1846. May 1, 1846. May 26, 1846. May 1, 1846. May 1, 1846. May 1, 1846. May 1, 1846. May 1, 1846.
Howen freplace Roves, cooking Buyes, cooking
P. S. Vedder, antiguors to Johnson, Cox, Lenity & Co. N. S. Vedder, santguors to Johnson, Cox, Lenity & Co. N. S. Vedder, antiguors to J. G. Abbort and A. Lawrence town and J. Gleier, antiguors to J. G. Abbort and A. Lawrence town and J. A. Read, antiguors to J. G. Abbott and A. Lawrence town and J. A. Read, antiguors to J. G. Abbott and A. Lawrence town and J. A. Read, antiguors to J. G. Abbott and A. Lawrence town and J. A. Read, antiguors to G. F. Filley, of St. Louis, Missouri and E. Ripley antiguors to G. F. Filley, of St. Louis, Missouri No. 3 No. 3 No. 3 No. 4 S. H. Swednad, and E. C. Little S. R. Barrow, and G. C. Harkness amin. and S. A. Balloy.
716 Richardson, N. F

ALPHABETICAL LIST OF PATENTEES OF INVENTIONS, DESIGNS, AND REISSUES, FOR THE YEAR 1892.

No.	Name.	Retidenca	Invention or discovery.	Date.
	Abbott, A. F. (See Nortleton, George, assignor.)			,
8.8. 8.8.		Vernon, lows.	Spinning wood, machinery for Journal boxes, bearings, &c., composition for forming	50
8,93 9,93 9,93 9,93 9,93 9,93	-	New York, N. Y Rampo, N. Y	Projectiles, composition for covering Hinges, butt, spring	Aug. 12, 1862. Nov. 18, 1862.
35,492	Ackerman, William. Adair, James. Adams, Charles, and Anthony S. Fleury. (See Fleury &	Flink, Mich.	Trees and logs, machines for cutting	April 13, June 10,
35, 660		> X ***********************************	Lam.himate kanaana	
88	Adams, James C.	Baltimore, Md	House, bridge, boat and wagon body, combined	įœ
8 8 8 8	Adams, John O.	Pittsburg, Pa Highanira Pa	Vossels, preserve	
98	Adams, L. J., assignor to self and C. L. Pettee	Cleveland, Ohio	Water elevators	<u></u>
8, 8	Adams, Nathaniel Adams, Samuel T	Cornwall, N. Y.	Carriages, running gear of. Washing machine	Feb. 11, 1862. Aug. 5, 1862.
35, 576	Adams, William V	New York, N. Y	Shackles, or handcuffs	12
38,38	Act, John Acate, John	Waterbury, Conn. Cuba. N. Y.	Locks Bagn, machine for holding and filling	
	Agnew, Angus, and Joseph White. (See White & Agnew.)			
8,5	Agnew, J. R.	Mercersburg, Pa	Globes, school	June 10, 1862.
37,140	Ainger, Abner C. and Samuel W. Webster, assignor to	Stockholm, N. Y	Cheese frames	Dec. 9, 1802.
100	Samuel W. Webster.			
26,265	Altken, Walter	Newark, III.	Water-wheel, current	S 8
8	Alden, Bradford R.	New York, N. Y	Lamp-burners	Oct. 21, 1862
3,			The second secon	٠ ;
Se igit	Alder, L. S.	Cleona, Ind.	Sawing down trees, machines for	July 8, 1862.
R ize	Alexander, Barton S	U. S. A	Projectile for rifled ordnance.	-
6 8 6 8 6 8	Alexander, Charles	Washington, D. C.	Candiestiek, camp	
8	Alger, Francis.	Boston, Mass	Shells, explosive, fuze for	of
4 K	Alger, Francis Allen, Anthony B.	Boston, Mass. New York, N. Y.	Shells, combined time and percussion fare for Corn-shellers	Sept. 30, 1862. July 15, 1862.
8 8 8		Niagara, N. Y	Lubricator, railroad journal	ğ
3	Allen, Chaster F., assignor to himself, C. B. Becbe, and H. Tavlor.	Pawpaw, Mich	Bumper, car and draw-bead springs	.
¥ 8	Allen, Edwin	Newark, N. J.	Forming and planing machines, movable bed for	Nov. 11. 1862.
8	Allen, Ethen	Worcester, Mass	ene/	April 29, 1862.
8,8	Allen, John, and Edward Pick	Worcenter, Mass		Oct. 28, 1862.
8,8,8 68,98	Allen, John F	New York, N. V.	toum, slide-valves of	April 29, 1863.

COMMISSIONER OF PATENTS.

1892 1893 1893	8	統統領領	활활별	a	<u>ස්</u> සි	덣	දු සු	ෂූපු	9861 18861 18862 18862 18863 18863 18863	ස් ස්ස්ස්ස්ස්ස්
2012 2012 2013	œ'	Jan. 21, 1962. Mar. 5, 1962. April 8, 1968. Dec. 7, 1963. Sept. 23, 1969.	~,8 <u>,</u> ~,	27, 1962 E	June 17, 1862. June 24, 1862	2, 1862	4, 1962 12, 1962	21, 1862. 21, 1862.	28, 1860 28, 1860 28, 1860 11, 1860 14, 1860 14, 1860	Nov. 4, 1862, Oct. 7, 1862, Jun. 21, 1862, Oct. 21, 1862, Juno 17, 1862, Dec. 2, 1862, Oct. 21, 1862,
April 29, April 28, Oct. 21,	<u> </u>	4 7 E 2 E	当る星	May	9 6	Sept	Feb.	Jan. 9	April: 90ct. San. Sapt. Jan. 1	**************************************
₹₹ ŏ	<u>-5</u> _			Ř	5 5	- 2	¥₹	- 55	AQUENTS &	* OF OF XAC
Engines, steam, tink-motion for Engines, steam, valve-grear for Engines, steam, valve-grear of	Leaching tan bark and obtaining extracts, apparatus for. July 29, 1962.	nied muzzie for	Platfering surfaces. Brick, machine for moulding and pressing. Cars, ruthroad, brake for	Car brakes, rathoad	Car brakes, railroad	Car coupling	Amalgamator Bread, aerated, manufacture of	Skirts, hoop Bottle stopples	Printing press, card, self-feeding Wrightg machine Buckles, harness Composition of fine or slow-match for igniting powder for made of sweet potato, articles of Food made form beaus, peus, &c., articles of Water-whoels, horizontal Reissue)	Traps, mole Telegraph cables Tobacco piles Printing press, engraved plate Printing press, engraved plate Pump, reciprocating Engines, stroam, oscillating Engines, stroam
Now York, N. Y. New York, N. Y. New York, N. Y. New York, N. Y.	Fryeburg, Mo	Middletown, Conn Middletown, Conn Middletown, Conn Middletown, Conn Middletown, Conn	New York, N. Y Tecameel, Mich Milwankie, Wis	Milwankie, Wis	Milwankie, Wis		Brooklyn, N. Y. Brooklyn, N. Y.	Brooklyn, N. Y Saugus Centre, Mass	Saugus Centre, Mass Greenfold, Mass Springfield, Mass Hornellsville, N. Y. Troy, N. Y. Troy, N. Y. Benville, Pa.	Plantsville, Conn DeKalb, Ill Leverington, Pa Leverington, Pa New York, N Y New York, N Y New York, N Y New York, N Y Worrensville, Obio
Allen, John F. Allen, John F. Allen, John F. Allen, Norman, and Robert Chudwick. (800 Chadwick &	Allen, Sidney. (See French, Samuel, assignor.) Allen, William H., assignor to self and Otis Warren Allison, William and S. M. (See Ekin, John, assignor.)	Allison, William. (See Ekir Alsop, C. R., assignor to J. Alsop, C. R., assignor to J. Alsop, Charles R., assignor Alsop, Charles R., assignor Alsop, Georges M.		Ambler, A. J., assignor to self, R. N. Ambler, and Warrick Martin.	< 4	Martin. Ambler, Augustine J., assignor to self, R. N. Ambler, and	W. Martin. Ambler, Stephen F. Ambler, Stephen F.	American Faist and order to Gee Trucks, assignry American Kaife Co. (See Gables, James H., assignor.) American Steam Gas Co. (See Bassett, John A., assignry Ames, Horace B. Ames, Nathan, assignor to the Goodyear India-rubber Stop-	Ames, Nathan, assignor to self and Nathaniel Evans, Jr. Amidon, Charles H. Amidon, Aban, assignor to self and L. Streeter Anderson, Thomas K. Anderson, Thomas K. Andress, Stephen R., and Sam'l and Mackdonough Bucklin. Andress, Stephen R., and Sam'l and Mackdonough Bucklin. Andrews, Abraham, dec'd, by Mary Andrews, administra-	
88.93 89.93 89.93	36, 046	8.444.88 88.836.88 88.836.88	¥8.¥ 888 888	35, 408	35, 647	86 86	% % %	89.89	86.84.84.1.1. 86.88.88.88.88	889488 898

List of patentees of inventions, designs, and reissues, 1862.

Antagnini, Bernarda, Antagnini, Bernarda, Antagnini, Bernardo, Antagnini, Archer, George, Archer, George, W., and B. Archer, George, W., assignaturong, F. W., assignaturong, F. W., assignaturong, James, Jr. Armstrong, James, Jr. Armstrong, James, Jr. Armstrong, James, Jr. Armold, Benjamin. Arnold, Benjamin. Arnold, Stephen D., assignaturong, James, Jr. Resphenty, Jr. S., Anton, Astronof, Edward II. Astronof, Stephen D., assignaturong, James E. Atterbury, Jr. S., Jr. Red Atterbury, Jr. S., Jr. Red Atterbury, Jr. S., Jr. Red Atterbury, Jr. S., Jr. Red Atterbury, Jr. S., Jr. Red Atterbury, Jr. S., Jr. Red Atterbury, Jr. S., Jr. Red Atterbury, Jr. S., Jr. Red Atterbury, Jr. S., Jr. Red Atterbury, Jr. S., Jr. Red Atterbury, Jr. S., Jr. Red Atterbury, Jr. S., Jr. S., Jr. Atterbury, Jr. S., Jr. S., Jr. Atterbury, Jr. S., Jr. S., Jr. S., Jr. S.,	3	Name. Residence. Date.	(See Boisset, Pierre, assignor.) (See Boisset, Pierre, assignor.) (See Boisset, Pierre, assignor.) (See Boisset, Pierre, assignor.) (Sullwater, N. Y. Shingle machine	Masillon, Ohlo Hounds and fifth-wheel, combined June 24, 1862.	(See Paine, Henry M., assignor.) jnor to self, S. G. Milligan, and J. New York, N. Y	Elmira, III. July 29. Augusta, corn. Joseph Deceding July 29. Nov. 25. Princarms, Princa	Rondond, N. Y. L. L. Locks East Greenwich, R. I. Sept. 23. Sept. 23. Sept. 23.	Simirs, N. Y. Stump machine Nov. 11, 11, 11, 12, 12, 13, 14, 11, 14, 11, 14, 11, 14, 11, 14, 14	Chicago, III	N. Y	Potteville, Fa. Philadelphia, Pa. Telescopes for measuring distances. Mar. 4. Philadelphia, Pa. (diseasore hollow manufacture of Feb. 11.	Pittsburg, Pa. Glassware, moulds for Mar. 4. Pittsburg, Pa. Glassware, hollow, in bas relief, manufacture of June 3.	Pittsburg, Pa. Glassware, bollow, manufacture of June 3, 1 Ripon, Wis. Sopt. 30, 1	Waterbury, Conn. Lamps Bept 16, Bucksport, Me. Engines, steam	Knapsack collar Dec. 16, 1 Metres, fluid July 8, 1	Water-metres Aug. 19, 1	olderJune 17.	Water-elevators (Reissne) July 1. Looms, power, harness motion of Oct. 21, 21, 31, 31, 31, 31, 31, 31, 31, 31, 31, 3	Ovens, portable Ordanes, construction of	THE COUNTY IN MEDICAL TO THE COUNTY IN THE C
		Мате.	(See Boisset, Pierre, assignor.) (See Boisset, Pierre, assignor.) obn A., Dan'l S., and Sam'l F. (See	or.) B. H. Smith. (See Smith & Archer.)	M. (See Paine, Henry M., assignor.)	, and Jno. Taylor irror to R. T. Kennil & Co.	Augustus Kübne	assignor to P. and F. Corbin	(See Seymour, James M., nasignor.) and Samuel H. Hamilton. (See Ham-	V	nesigner to self and R. H. Gratz.	Reddick, and T. B. Atterbury.								

	:		Disches man and and and and and and and and and a	
7	Indian'r, N	Alta No villa No		July
66	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	New Haven, Coun.		ž
36, 635			ha for	Oct. 14.
		Constitution Constitution	Clothes.wringer	14 1000
8, 178	Balley, Alfred M. and John O. Couch, assignors to the			JAM. 14, 1004
			Wdrants, cut.offs for	8
36, 319	Balley, Edwin, assignor to self and Heury McShano		Check hageners	Aug. 20, 1000
ž Š	Bailey, George	Buffalo, N. 1	Design for the second s	2,5
36 763	Ballay Garren		ricesce for stamping tickets	¥
37.63	Ballor G B		Grain-cleaners	Dec. 2, 1862.
7.	Rellan Cilban I		Buckles	April 8, 1862.
050	Hollow Calbons I	Dordand Ma	('neener for	Œ
5	Pollon I & see / Cas Thirtle Churles E administrator	Total March 1997		;
	of sacignose)		•	
٤	Rollow & A	New London Conn	Wringing machine cylinders	Anril 29 18/2
£	Dolley S. A.	New London, Conn.	Wringing machine, rollers for	June 24, 1862.
	Bailey, Stephen A., and Russell Wheeler. (See Whoeler &	•		
	Bailey.)			
27,870		Rallston Spa, N. Y		April 8, 1862.
37, 124	Balrd, Joseph H., assignor to Jedediah Wilcox	Waterbury, Conn		Dec. 9, 1862.
ž	Baird, Lewis	Cambridge, Mass.	mode of preventing incrustation in	
36,331	Baker, A. C., and John Van Dyne	Hyde Park, N. Y.		
3,357 34,387	Baker, Edward D	Claremont, N. H.	traction of	Feb. 4, 1862
36,33		West Yarmouth, Mass		Sept 2, 1862.
	٠.			
	Baker, J. M., and C. G. Case. (See Cuse & Baker.)			
3, 66.	•	Kendallville, Ind	Lamps, mode of removing chimneys and filling	June 24, 1862.
	Maker, Joseph, and R. C. and J. P. Carr. (See Cummings,			
	Daniel M., assignor.)	;		
ਲ ਲ	Buker, M. L.	Munnsville, N. Y.	Grain, machines for gathering and binding	April 15, 1862.
	Baker, Philo E., and Sam'l M. Logun. (See Logun & Baker.)			
35, 133	Baker, Seth W.	Providence, Z. I	Lapping, printers'	May 6, 1462.
	Baker, Zachnriah		Tanning	
	Balch, John II. (See Darby, Assa L., assignor.)			;
£.	Balderston, John E.	Philadelphia, Pa	Axles, splicing-bar for	Jne. 21, 1462
7. 7.	Baldwin, John, Jr.	Berea, Ohio	Grindstones, machines for making	=
**************************************	Baldwin, J. Lewis.	Newark, N. J.	Duguerreotype cases, moulds for making	=
	Baldwin, M. W	Funadelphia, Fa.	Engine, rotary	÷ 6
	Baldwin, Sarah A.	Waterbury, Conn.	Softn and bathing tub, combination of	, ,
	Baldwin, Saran A.	waterbury, Conn	Door-plates and card-receivers	ā :
g S S Z E	Ball, Cortiand	Name of the last	nammers	Sept. 3, 1862
	Dell Themes C and the second to be on the and to the	New York, N. I.	Commenter blind and director	- 8
	Dall, I holling C., assugnor to sell, D. M. Smill, and D. H.	Springnera, v to	oupporters, usua sau a user	Ş
96 90	and A. C. Mitson.	N.m. Vont. W.V.	China motollic defending a series for	2
3	Delland William	Homos N V	Theille are in	ç
\{\bar{\chi}{\chi}\}	Relater Tohn H	Dauton Ohio	Link, Brom	į
() (Bancroft Charles F.	Waterbury Conn	Clothes wringer	May 20 1469
	Banes. James S. (See Waterman, L. B., assignor.)			
36, 500		New York, N. Y.	Pumps, rotary	Sept. 23, 1802.
35, 432 32, 432	Barager, Charles F.	Candor, N. Y.	Plough, reversible.	June 3, 1802.
4				

List of patentees of inventions, designs, and reissues, 1862.

ğ	Илте.	Residence.	Invention or discovery.	Date.
48.93 98.93 88.83	Barber, Hiran Barber, Ira S., assignor to self and Luther N. Fuller Barcalo, J. B. Barclay, George W., and R. V. De Guinon. (See De Guinon	Juneau, Wis New York, N. Y Ht. Morris, N. Y	Bed-bottom Cigar machines Separator, grain	Dec. 23, 1862. June 24, 1862. Dec. 9, 1862.
8 4 8 8 6 8 8 8	& Barciay, Robert. Barciay, John S. Barden, John S. Barden, John S. Barden, Abraham, C. D., assignor.) Bare, Abraham.	Buffalo, N. Y. New Haven, Conn. New Haven, Conn. Mexico, Ohio	Chronometer escapements. Engines, steam, crank and cross-bead connexion for. Water metres. Seccharine futces, evaporators for.	Oct. 14, 1969. Feb. 19, 1962. Oct. 21, 1962. Maf. 25, 1969.
26,82 37,83 123	Barkalow, W. V. (See Gault, John, assignor.) Barker, John W., and James P. Haskins. Barker, Samuel G. Barker, William P., assignor to self, James Van Buren, and			
35, 357 36, 596 36, 596 507	d A	Stake Hill, Middleton, England	Bleaching and cleansing textile fabrics, apparatus for Stoves Fratenings, window blind Fascalings, blind and shutter	May 27, 1862. June 3, 1862. Oct. 7, 1862.
සු සු සු සු සු සු සු සු සු සු සු සු සු ස	Barries, Henry, and Andrew Sawyer. (See Sawyer & Barries, Barries, Barries, Barries, Barries, Barries, Barries, Barries, Linnes J., sasignor to self and William W. W. Wood. Barriett, Innes J., sasignor to James Horner. Barries, Thomas J., sasignor to James Horner. Barries, A. C. Barries, A.	Milwankie, Wis Rochester, Mich France Independence, Iowa Brooklyn, N. Y Providence, R. I Providence, R. I	Millen rathroad, shackles for Millen stone-staff. Ores, concentrating and cleaning. Churns. Churns. Lamps. Bayeve, gas-burner. Chesten).	May 13, 1862. Sept. 16, 1962. May 6, 1862. May 13, 1862. Feb. 11, 1962. April 8, 1862.
<u> </u>	Barthel, Jacob, and Samuel Keeler. (See Keeler & Barthel.) Bartholmowy, Fredrick H. Bartholmowy, Fredrick H. Bartholmowy, Barty S. Bartholw, Roberts Bartlet, Joseph W. Bartlett, Rephen S., assignor to self and Thos. H. Dodge. Bartlett, Stephen S., and John E. Brown. (See Brown & Bartlett, Relsene S., and John E. Brown. (See Brown & Bartlett, Relsene.) Bartlett, Relsene.) Bartlett, Relsene.) Bartlett, Relsene.) Bartlett, Relsene.) Bartlett, Relsene.) Bartlett, Relsene.)		Valve-regulators Ball brace (Reissue) Rartidge, solid Pumps Sewing machines, needle-gauge and adjuster for Harvesters	Feb. 4, Aug. 5, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,

104	America, R. 1 America, Mane Philadelphia, Pa	Aphinding france, holetore for Bollows, allower, steming	Nov. 25, 1492. April 6, 1462. Mar. 4, 1862.
		Bell, alarin, for doors.	Sept. 9, 1868.
39, 398 Bareett, Charles 34, 587 Baseett, E. F. 35, 907 Baseett, John A. 35, 907 Baseett, John A.	Maullon, Ohlo Seymour, Conn Salem, Mass Salem, Mass Salem, Mass	Holeting-crance Anattrees Gas, apparatus for earbureting Gases for Illuminating and other purposes, manufacture of Gas, apparatus for earbureting	Oct. 7, 1969. April 15, 1969. Mar. 4, 1969. July 9, 1969. July 29, 1969.
888		nee, pee, st	April 1, 1862 Nov. 25, 1863 Ang. 5, 1865
35, 865 Battin, Joseph. 1.265 Battin, Joseph. 1.266 Bandelot, Jean Louis, assignor to Henry Migeon. 1.267 Bandelot, Jean Louis, assignor to Henry Migeon. 2.288 Rance Peter.			July 15, 1968. Jan. 28, 1968. Jan. 28, 1968. Jan. 28, 1963.
985 Baumann, John N 620 Baxter, Charles F. 008 Bayley Oliver W 221 Baylis, James R.			July 29, 1862 Mar. 11, 1862 April 22, 1862 July 1, 1863
-	Penn Yan, N. T. Philadelphia, Pa. Brooklyn, N. Y. Independence, lowa.	Hemp and flax for carding, machinery for preparing Captul, device for preading. Stereotype plates Stereotype plates	Sept. 23, 1962. July 22, 1962. July 29, 1962. Oct. 22, 1963.
Beanes, Edward Beanes, Edward Beanes, Edward Beanes, Edward Beardsley, Levi A Beatty, A. W., and R.			July 1, 1862. Aug. 5, 1862. Nov. 25, 1863. May 30, 1863.
35, 505 Reck, American (See Valentine & Ridout, aasignora.) 36, 445 Reckers, Alexander 36, 595 Beckers, Alexander 36, 599 Beckman, Horatio B Beckman, Horatio B Beckmin, F. D., and Roll, Edward D., and R. Gird,	New York, N. Y Hobbten, N. J Hobbten, N. J Newburyport, Mass	Skirt claps, plers for closing. Steering apparatus Steering apparatus Engines, steam, automatic stop-motion for	June 24, 1962. Sept. 16, 1862. Nov. 18, 1862. Oct. 21, 1963.
36, 638 Beebe, A. M	West Bloomfield, N. Y. Chloago, III. New Haven, Conn Onwego, N. Y. Fayette township, Pa	Whiffletroes Corn. machines for abelling and elecaing Fruit basket Drill, hand Weter-wheels Wood Intaline machine for sulitime	Oct. 14, 1862. Oct. 21, 1862. April 29, 1862. Aug. 12, 1862. April 21, 1862. April 21, 1862.

List of palentees of inventions, designs, and reissues, 1862.

No.	Namo	Residence.	Invention or discovery.	Date
35, 579	Behn, Henry Bethuel and Nathaniel Shepard Keith.	New York, N. Y	Lamp, coat-oil	June 17, 1862.
34, 191	Beidler, Charles Beierleit, Henry, and William Keubler. (See Keubler &	Allentown, Pa Pioughs	Floughs	Jan. 21, 1862.
	Bell, B. D. (See Scoffeld, L. S., assignor.) Bell, R. J., and VW. Gibb. (See Gibb & Bell.) Bell, W. J., and W. Gibb. (See Gibb & Bell.)			
36, 446 36, 447	Bement, Edwin	Fostoria, Ohio Fostoria, Ohio Dhiladahia Da	Plough beams Plough points.	Sept. 16, 1862. Sept. 16, 1862.
34, 192	Benas, N	New York, N. Y.		
36,267	Bender, Richard W.	Chicago, Ill.	Fraporating by means of steam, apparatus for	Aug. 26, Dec. 23,
36,049	Benfield, E. M., assi Bennett, David	Maquin, Ill.	Hedges, machines for trimming Shoe, ice or calk	July 29, 1862. April 1, 1862.
;	Benjamin, ussignor	;		
34, 460	Bennett, Erastus S., and Lydia Brown.	Brooklyn, N. Y	Brooklyn, N. Y.	Feb. 18, 1862.
34,346	Bentz, Samuel	Carroll county, Md.		
		Covert, N. Y. Berrysburg, Pa		
37, 601	Bering, Thomas G Berlin, P. J.	Philadelphia, Pa. Blairsville, Pa		June 3, 1862. Dec. 16, 1862.
		Jersey City, N. J.	nposition for	June 17, 1862.
0	Berney, Alired Bernetein, Samuel. (See Carter, Wm., assignor.) Berry, Wm., und Henry P. Adams. (See Adams & Berry.)	Jersey City, N. J	Shott, liquid fire, or projectile	NOV. 11, 1502.
36,937		Paris, France. New York, N. Y.	Advertising, panoramic, apparatus for Amalgamator for collecting gold and silver	Nov. 11, 1862. July 29, 1862.
) Q 8,8,5 12,55 12,55 12,55 12,55 13,55 14		Easton. Pa.		July 22, 1862. Oct. 21, 1862.
2		Chattagm, Conn	Sleigh bells to straps, mode of uttaching(Itcissur)	April e, 1902
888 888		Pottsville, Pa. Ogden, N. Y.	Stoves Stoven Stoven	June 17,
35,00 26,00 26,00		Harlan, Ind.	Uniform	Sept. 23, 1803.

House to binating here. The state of the st	Candles, mould, machine for making. Cultivators. Pumps, cattle. Aug. 19, 1862.	Weighing carts, self Oct. 7, 1862 Lamps Jun. 7, 1862 Jamps Jun. 7, 1862 Doors and gates, weight and lever attachment for 1862 July 29, 1862 Lamp oblimeys July 29, 1862 Maternaters July 15, 1862 Boiler, steam self-regulating apparatus for feeding April 1, 1862 Needles, sewing-machine, machinery for making Sept. 9, 1862 Needles, sewing-machine, machinery for making Sept. 9, 1862 Mar. 4, 1862 Mar. 4, 1863	Sewing machines, folding and tucking gauges for June 24, 1862. Lamps 2, 1862. Shovel, scoop June 21, 1862. Bodsteads, folding Mar. 4, 1862.	Jon. Dec. Feb.	Aug. 26, 1862.
Rechester N. V. St. Lind Mann. Now Bester N. V. St. Lind Mann. St. Control of	New York, N. Y	Danbury, Conn. Waterbury, Conn. Waterbury, Conn. Materbury, Conn. Materbury, Conn. New York, N. Y. Waterbury, Conn. Waterbury, Conn. Materbury, Conn.	Worester, Mass Waterbury, Conn Boston, Mass. New York, N. Y	New York, N. Y New Rochello, N. Y Newport, R. I.	Glover, Vt. Manchester, N. H. New York, N. Y. Chicago, Ill. Rochester, N. Y. Inchester, N. Y. Lancaster, Pa. Newtown, N. Y. Strasburg, France.
Halling, T. H. W. W. S. Schulze, Until medigmer. Hallings, Trenh. Halling, Trenh. Halling, Alone J. Hermin, March J. Hermin, Alone J. Hermin, Alone J. Hermin, Alone J. Hermin, J. W. and grow to Horneo H. Day Herdell, John C. Birkoli, Alexander Bisbee, Irr, and Arra Bisbee.	so Burncker (See Walcott, Jabez E., assignor.) (See Hondrickson, Ezekiel M.,		3		
# ####################################	8,8,8, 88,88 88,88 88,88	8.9.9.8.9.9.8.9.9.9.9.9.9.9.9.9.9.9.9.9	38, 667 9, 193 1, 284	2, 18 2, 21 4, 25 4, 25	E838 E83 8 8888 181 8 Digitized by GOOS

List of patentees of inventions, designs, and reissues, 1862.

Date.	Sept. 16, 1962. Nov. 4, 1962. June 17, 1962. June 17, 1962. May 20, 1962. April 22, 1962. April 22, 1962.	Mar. 4, 1862. Jan. 7, 1862. Sept. 30, 1863. Oct. 28, 1863. July 8, 1862. July 22, 1862.	Nov. 4, 1862. Nov. 18, 1862. Sept. 2, 1862.	May 13, 1962. July 22, 1962. Nov. 11, 1962.	July 15, 1962. Nov. 4, 1962. Aug. 5, 1962.	une 10, 1962. Lpril 22, 1968.	Mar. 18, 1862. April 29, 1869. Mar. 25, 1963. Drc. 23, 1863. July 1, 1862.
Invention or discovery.	Projectifies, application of soft-metal packing to. N. Horse-power, sun and planet. (Extension) A Vehicle, velocipede Sword handles, India-rubber. Boots and shoes.	Knapsecks Pulveriser and eccl.sower Ordnance, revolving Rafting logs and timber, mode of Shuttle-boxes, enablons for	Separators, grain Separators, grain Boots, gaiter, fastening for	Milk, sweet, concentrating and preserving. (Relsue) Clder and other juices of fruits, concentrating and pre- serving for use. Preserva treech-loading.	Loeks, seal, for mails, &c Bootjack Radiators	Tobacco pipes Harvesters	Weshing machino Ploughs, mow, for railroads Clothegadryer, rotating Water-closets, valves for
Residence.	Philadelphia, Ph. Brooklyn, N. Y. Brooklyn, N. Y. Waterfown, W. I. Philadelphia, Pa. Paris, France. Paris, France.	New York, N. Y. Henry, III. Helton, Pa. Clinton, Iowa. Lowell, Mass.		Amenla, N. Y. Amenla, N. Y. Granitaville, Mass	Paris, France Geneva, N. Y. Pittaburg, Pa.	Baltimore, Md. Madison, Wis.	Green Point, N. Y. Sandy Creek, N. Y Mount Carroll, III. Brooklyn, N. Y Cibrego, III.
. Name.	Boehner, Matthew E. (See Seavery, John E., assignor.) Bocklen, R., and G. W. Schramm. Bogurdus, James Bogul, Henry Bogis, Matthew Bosiese, Pierre, assignor to self and Bernardo Antagnin. Boisset, Pierre, assignor to self and Bernardo Antagnin.	Boncy, John (Nee Ferry, Ell, assignor.) Bondy, Joheph. Bonham, G.W. Bonham, John L. Bonk, Nelson C. Boorn, Samuel Boorn, Samuel Boorn, Holmes & Hayden, (See Atwood, Lewis J., astr.) Booth, Holmes & Hayden, (See Atwood, Lewis J., astr.)			Boubilla, Jein Reny Bourgolee, J. B., and J. P. A. Havard. (See Havard & Bourgolee,) Bourne, William. Bourne, Alliam.	Bouton, N. S. (See Newhouse, Henry assignor.) Bowen, Andrew J. sesignor to self and Levi K. Bowen Ba Bowen, J. B., and J. E. Baker. Bowel, James A., and Chaa. Carr. (See Goodwer, Robert B., sasignor. Relieve.) Bowker, S. H. (See Illoiden, Cyrus B., sasignor.) Boyce, C. B., & Co. (See Clement, Daniel B., sasignor.)	Boyce, C. B., & Co. (See Squires, Sidney, assignor.) Boyce, Elfen B. Boyd, John E. (See Bulkley, Charles S., assignor.) Boyden, Purlon. Boyce, William, assignor to John L. Livingraton and John B. Shaffer. B. Shaffer. B. Shaffer. B. Shaffer. Bryton, O. R., resignor to G. C. Pope and E. F. Shotton.
No.	88. 88888 48. 88888 64. 88	24.24.24.24.24.24.24.24.24.24.24.24.24.2	8,1,8, 8,2,8,	35, 919 36, 891	හි තුළ ක තුළ	88 88 88 8009	2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8

Nov. 95, 1447, J. April 15, 1462, July 1, 1662, Oct. 14, 1462, Jun. 98, 1662,	April 15, 1862. Nov. 18, 1862. July 1, 1862. Jun. 14, 1862.	Sopt. 22, 1862. Sopt. 22, 1862. Mar. 4, 1862. April 8, 1862.	May 20, 1862. Jan. 28, 1862. July 29, 1863. Sept. 23, 1862. June 10, 1862.	April 1, 1862. April 1, 1862. April 15 1869	Nov. 18, 1862. Oct. 14, 1862.	Aug. 5, 1962.	July 29, 1802. May 27, 1802. Jan. 14, 1809. April 1, 1802. Oct. 21, 1802. Feb. 25, 1802. April 15, 1802.	May 20, 1962.	Sept. 2, 1882. Sept. 2, 1892. Sept. 2, 1892. Sept. 3, 1892. Dec. 33, 1893. Aug. 12, 1883.
	Iron, east, into wrought iron and steel, convering Bee blyes Casting ploughabave, mould for Gun, magazine	Ones. The machines for upsetting. Transing. Process of extracting the strength of bark for tanning and	Skins, deplating and bating bans for Secharine liquida, evaporating pans for Piro-trans. Fire-trans. Fire-trans, revolving.	Water by steam, device for raising		Planters, corn.	Car springs, radiroad Car trucks Telegraphs, optical Washing machine. Presses, tobacco. Cars, street, mode of starting		Corn, device for hunking Fruit-gatherers Fruit-gatherers Field-rollers Churns Ploughs
N. w. York, N. Y. Arborn, N. Y. Arborn, N. Y. Ballinson, M. H. Hymonin, M. Hymonin, M. Worldbeiter, Ph.	Ironton, Obio. Lapore, Ind. Mount Joy. Pa. Washington, Pa.	New York, N. X Red Bank, N. J Cleveland, Ohio Cloveland, Ohio	Cleveland, Oblo Mirolo, Pa. Norwich, Conn. Norwich, Conn. Hillsboro', III.	Sangatuck, Conn. Sangatuck, Conn. Sangatuck, Conn.	Sangatuek, Conn. Washington, D. C.	Muscatine, Iowa	New York, N. Y. Newton, Mans. Philindsiphla, Pa. Brookfield, Coun. Louisville, Ky. South Bend, Ind.	Providence, R. I.	Upper Sandusky, Ohio Upper Sandusky, Ohio Upper Sandusky, Ohio Upper Sandusky, Ohio Auburn, N. Y. Louisville, Ky
Hoynton, N. A., Jr. Hoynton, William, Jr. Bradhrad, Abbert Urean Bradhrad, John S. assignor to Joseph C. Manning. Bradhord, Lewis G. Bradhoy, C. H. Bradhoy, C. H. Bradhoy, David, et al. (See Furst, Bradloy & Lacoy.)	Bradloy, James B. Brad, Joseph I. Brad, Christian II. Brady, Freeman, Jr., and John C. Nobio	Brain, John M. Brain, John M. sasignor to Brainerd & Barridge. Brainerd, Jehu, and W. H. Barridge.	Brainerd, Jehn Brainerd, O. M. Brainerd, O. M. Branad, C. C. Branad, C. C. Branad, G. C. Branan, B. B. Branan, B. B. Bran, E. P., and Jon. Merian. (38s Jonkinson, Jun., asst.)	Brryley, Jar., and John B. Pitts. (See Cordon, Alex'r, ass'r.) Brear, Abel Brear, Abel	Breat, Abel Breat, Abel Breth, Theodore, and S. B. Sigemond, assignors to them- selves, John Kulinski, Xavior Karcheski, and Abazander Wolczen	Brent, Theodore R. Britan, S. S. W. See Wilson, John W., austr.). Bridgeman, Ernstru C., et al. (See Wilson, John W., austr.). Bridgeman, Ernstru C., et al. (See Wilson, John W., austr.).	Bridges, Albert, sasignor to self and Albed Bridges Bridges, Affred, assignor to self and Albert Bridges Bridges, William G. Bridger, Henry P. Briggr, John, assignor to self and J. J. Hair Briggr, John, Assignor to self and J. J. Hair	A, and Joseph Nason. (See Nason & Brigga.) A, and N. W. Taylor. (See Taylor &	Brinkenboff, A. W., and A. T. Barnes Brinkenboff, A. W., and A. T. Barnes Brinkenboff, A. W. Brinkenboff, A. W. Brinkenboff, J. Roob Brinkenboff, Jacob Brinkenboff, Jacob
8488 2 13488 2	¥884 884 884 884 884 884 884	888 8888 8888	**************************************	94,810 84,811	88 88 88 88	36,069	& & & & & & & & & & & & & & & & & & &	X X rigitized	888888 888888

List of palentees of inventions, designs, and reissues, 1862.

Date.	July 23, 1862. May 13, 1862. Mar. 25, 1862. June 3, 1882. Sept. 9, 1862. Aug. 26, 1862. Jun. 21, 1862. Jun. 21, 1862. Nov. 25, 1862. Doc. 23, 1862. Doc. 23, 1862.	Nov. 4, 1862. Mar. 25, 1862. April 29, 1862. Aug. 26, 1862. Juno 17, 1862. July 1, 1862. Jan. 7, 1862.	April 15, 1862. April 29, 1862. Mar. 25, 1862. Nov. 18, 1862. Mar. 25, 1862.	June 10, 1962. May 20, 1862. May 20, 1862. Sopt. 10, 1862. Feb. 25, 1862. Feb. 25, 1862.
Invention or discovery.	Sowing grain, &c., broadcast, hoppers of machines for Funaces for reforts, stills, &c., Ordnance, breech-loading Ploughs, corn. Lamp-burners Lamp boxes, draught attachment for Corsets Sieves, grain Road-ternpers Heaters, sad-iron Heaters, sad-iron Elevator bucket	Friction, coupling Grates, stove Grates, stove Grates, stove Ordrance mounting Boilers, steam, feed regulators for Sawing machines, portable. Boots and shoes.	Ticket recorders Ralirosa chairs Guitivators Gas regulators Lamps, chimneys for	Shortsville, N. Y. New York, N. Y. New York, N. Y. New York, N. Y. New York, N. Y. New York, N. Y. Washington, D. C. Washington, D. Washington, D. Washington, D. Washington, D. Washington, D.
Residence.	West Chester, Pa. Chalons, France. Chicago, Ill. Springfield, Ill. Springfield, Ill. Boston, May. Boston, May. Waverly, N. Y. Rochester, N. Y. Rochester, N. Y. Rochester, N. Y.	New York, N. Y Troy, N. Y Midliuville, Pa Warren, R. I Fitchburg, Mass Homer, N. Y New York, N. Y South Reading, Mass	Chleago, III. Ithaca, N. Y. Hightstown, N. J. Chicago, III. New York, N. Y.	
Маше.	Britton, Joseph H. Brison, Claude Brison, Claude Broadwell, W. B. Brockett, Charles P. Bromley, P. M. (See Mets, Elishs, sasignor.) Browle, C. M. (See Easterbrook & Wood, assignors.) Brooks, Gilbert, and Wm. Ogden, sasignors to themselves Brooks, John S. Brooks, John S. Brooks, John S. Brooks, John S. Brooks, John S. Brooks, John S. Brooks, John Warren Soule. (See Boothby, Putrum S., assignors.)	Brown, Aloho, et al. (See Fean, Griss & Bros. Brown, Adolph and Felix Brown, Albert Brown, Albert Brown, Charles F Brown, Charles H Brown, Charles H Brown, Charles H Brown, D. C Brown, D. C Brown, Edward, assignor to John W. Piper, ussignor to	Brown, Edwin R Brown, Edwin R Brown, Franklin E Brown, Harvey Brown, Harvey Brown, Henry, and Garrelson Smith. (See Smith & Brown.)	Brown, Hiram L. and Calvin P. Brown, J. N. Brown, J. N. Brown, J. S., assignor to self and Joseph Kent Brown, J. S. Brown,
No.	888.838 8 88 88.88 888.838 888.838 888.838 888.838 888.838 888.838 888.838	88.488.888.488 88.788.889.48 88.488.888 88.488.888 88.4888 8888 8888 8888 8888 8888 8888 8888 8888	¥8484 88754 8654 8654 8654 8654 8654 8654 8654 86	52.45.85.25.1. 1. 1. 25.05.25.25.25.25.25.25.25.25.25.25.25.25.25

98, 940 85, 967	-	New York, N. Y. Cincinnadi, Obio	Letterbox Curbinko	April 15, 1463.
88. 88.	Brown, Lydin, et al. (See Bennott, Ernstus B., nasignor.) Brown, Brieblins I. Roown Orren I.	Onouwn, Iowa	Rukes, horse	June 10, 1862
35.913		_		Nov. 23, 1862.
8 8 8 8 8			hine ech-loading	May 20, 1962.
3		New York, N. Y		
8 F	Brownell, C. E		Projectics, explosive, for ordinate Cards, machine, cylinders for	June 10, 1862. Mar. 25, 1862.
8 8 8			Crank motion	Mar. 25, 1962.
8 8 8 8 8 8		Schonectady N. Y.		
36,941				
3	Buchanan, Coo			
	Buck, Afred. (See Peters, William, assignor.) Buck, Afred. (See Peters, William, assignor.)			
	Buck, Jerome. (See Ma			
34, 391	Buckland, Wm. Henry	Glamorgan, Great Britain	Preparing peat, mode of	Feb. 11, 1862
	ndres &			
	Bucklin, S. S. (See Marshall, Moses, assignor.) Bucklin, S. S. (See Marshall, Moses, assignor.)			
34, 736		East Greenbush, N. Y	Knife, fork, and spoon cleaning machine	Mar. 25, 1862.
35, 585	Buckwalter, A. H. and	Kimberton, Pa.	Brick machines	June 17, 1862.
•				
	gden Do			
8, 806				Mar. 25, 1862.
88 24				May 27, 1862.
8,8 36	Bunn, Lewis D	Stock bridge, Vt	Distilling coal-oils, apparatus tor	Oct. 28, 1862.
Dig				
% itize	9 =	Sylvan township, Mich	Cutters or sleighs, iron	Jan. 21, 1869.
d by	Burden, Henry			July 1, 1862.
3 3 3 3 3				July 22, 1702. Feb. 18, 1862.
34,813	Burgess, Thomas H	Boston, Mass		April 1, 1862.
3,5	Burk, Hiram	Ohio	Drills, mining	April 15, 1862
<u> </u>	Burke, Edmund. (See Leach, George, assignor.)	_		
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List of palentees of inventions, designs, and reissues, 1862.

Š.	Name.	Residence.	Invention or discovery.	Date.
88.88 88.88 89.88		Fitchburg, Mass Lock Haven, Pa Tecumsch, Mich Willett, N. Y	Pulley, friction Pavements, concrete, composition for Threshing machines Fetters, animal	July 8 1862 Sept. 2, 1862 July 29, 1862 July 29, 1862
44.48.49. 84.48.8 70.48	Burnet, S., and D. Burnett, P. W. Burnett, William Burnham, Nacou. Burnham, Io. R. Burnham, William B.	Socramento, Cal Boston, Mass Norwalk, Ohio Norw York, N. Y Eust Sagnaw, Mich Washingron, D. C.	Railroad switch Stocks, gun Balances, spring Skirta, hoop Saw, mills Houses, portable	Jan. 7, 1862. Jan. 7, 1863. July 15, 1863. Mar. 35, 1863. April 15, 1862. Oct. 21, 1863.
8844 8844 8848	Burr, Hearly A., (New Well, Hearly A., Bulagnor.) Burr, Hearly A., and Lucius E. Rookwell Burr, Murfin Burr, Murfin Burrell, James Burrell, James Burrell, Sames Burridge & Brainerd. (See Brainerd, John, saudnor.) Burridge, W. H., and John Brainerd. (See Brainerd,	New York, N. Y Pymoeth, Mich Orvitamn, Minn Central City, Col. Ter	Lubricators. Separators, gruin Clothes-dryer. Amalgamator and ore-crusher	Dec. 9, 1862. Dec. 16, 1862. Aug. 19, 1862. Jan. 28, 1862.
8, 11, 1, 58, 93 1, 1, 58, 93 13, 58, 13, 13, 13, 13, 13, 13, 13, 13, 13, 13	Burrow, Edmund F Burt, Lorin Burt, John W Burt, John W Burt, John W Burt, William L	Mystic River, Conn United States United States Now York, N. Y Now York, N. Y Now York, N. Y Cambridge, Mass	Brake for railroads, self-acting Cloth, rubber, figured, manufacture of Anklet Anklet Anklet, ornamental Anklet, ornamental Carriages, street railway	April 29, 1862. July 29, 1862. May 6, 1862. Aug. 12, 1862. Dec. 9, 1862. Aug. 12, 1862.
¥24488888884888 421948888888888 42194888888888	Bullerick, Wu. H. (See Storkes, Both B., naugrote.) Bunk Francis Bunk Francis Bunk Timothy M. Bunk William Bunk William Bunk William Bunk William Bunk William Bunk Ohnrie Butter Orth M. Butter Or	New York, N. Y. Boton, Mass Huron county, Ohlo Pullathing Pa. Pullatedelphis, Ps. Botton, Mass Boston, Mass Rower York, N. Y. Dover, N. J. Watrford, N. Y. Pyrnouth Biolow, Conn Floration, Mo. Portland, Mo. Portland, Mo.	Bottling apparatus Gurridge to boxes Sawing machines Gawing mechanes Tanning for moreceo and other grain-finished leather Tanning for moreceo and other grain-finished leather Tanning for moreceo and other grain-finished leather Wagoul good, &c., machine for Wagoul good machinery device for changing Boles, steam, machinery for making brace-jaws for Boles, steam, machinery for making of Rumps Karfe, fork, and spoon, packing of Langel Langel Langel	Feb. 11, 1962. April 1, 1962. April 1, 1963. April 1, 1963. April 1, 1963. Oct. 28, 1963. Oct. 28, 1963. Nov. 6, 1963. Nov. 6, 1963. April 26, 1963. April 26, 1963. Kar. 13, 1963.

Feb. 14, 1862. Sept. 14, 1862. Jan. 7, 1862. May 13, 1862. July 22, 1862.	Oct. 7, 1862. June 10, 1862. Doct. 16, 1862. Oct. 14, 1862. May 13, 1862. July 22, 1862. June 10, 1862. June 10, 1862. June 10, 1862.	Ansy 6, 1902. May 6, 1902. April 8, 1962. April 8, 1962. April 8, 1962.	May 13, 1862. Aug. 36, 1862. Oct. 7, 1862. Jan. 21, 1862. Har. 18, 1862.
Nurses, distincturing to the state of the st	Confectionery, machinery for making Ordinance, revolving, automatic Shoulder-brace and suspenders combined Gold-washer Canteen Paper, and other purposes, application of the hibiteus moschenctor to the manufacture of. Chenilie, machinery for manufacturing Bedsteads, metallic Cultivators Water-wheel		Heaters Lamps, railroad Lamps, railroad Cars, horse railroad, starting apparatus for Sweeping machines Vinegar, apparatus for making
N. W. Verk, N. V. New York, N. Y. New York, N. Y. New York, N. Y. Vellow Head, Ill. Waterford, N. Y.	Philadelphia, Pa. New York, N. Y. Sabula, Jowa N. Y. Sabula, Jowa N. Y. Niew York, N. Y. New York, N. Y. Brooklyn, N. Y. Sabula, N. Y. Marvellus, N. Y. Marvellus, N. Y.	Buffalo, N. Y. Brooklyn, N. Y. Providence, R. I. Providence, R. I.	Utica, N. Y. Utica, N. Y. Utica, N. Y. Worroster, Mass. Philadelphia, Pa. New York, N. Y.
00 00 000000 00	Campbell, Sannel S., and Josith Goodwin. Campbell, Thomas J. Cannield, James Cantel, Lazure Cantel, W.J. Canter, William, assignor to Sannel Berustein Carry, John. ussignor to Sannel A. Smith. Carley, Timothy L., and Anos Juckson.	30. (See Lockwood, Geo. W., 1887.) 31. (See Lockwood, Geo. W., 1887.) 42. Bowic. (See Goodyear, Robert 32. Stratton, Richard A., 1881gnor.) 32. Stratton, Richard A., 1881gnor.) 33. George Stratton, Richard A., 1881gnor.) 34. Joseph Buker. (See Cummings, (See Perry, Stuart, 1881gnor.)	Carter, Charles H. A. (See Perry, Stuart, assignor.) Carter, Charles H. A. (See Perry, Stuart, assignor.) Carter, Charles H. A. (See Perry, Stuart, assignor.) Carter, Charles H. A. (See Perry, Stuart, assignor.) Carton, John Carton, John Carton, John Carton, Alamen Carty, R. D. Cassamajor, Paul
62	532833 \$438 886388 8888 c. 52——3	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	######################################

List of patentees of inventions, designs, and reissues, 1862.

Case C. G., and J. M. Baker Cuss, A. B. Cuss, A. B. Cussell, H., and W. F. Semple. Custill, R. Mand W. F. Semple. Custiver, Robert, and Norman Alten, assignors to Bobert Chadwick, Robert, and Norman Alten, assignors to Bother. Chadwick, Robert, and Norman Alten, assignors to Bother. Chadwer, Thous, and (See Hedges, Wheeler, ass'r. Reissue.) Chalmers, Thous, and (See Hedges, Wheeler, ass'r. Reissue.) Chalmers, Thous, and (See Hedges, Wheeler, ass'r. Reissue.) Chalmers, Thous, and (See Hedges, Wheeler, ass'r. Reissue.) Chalmers, Thous, and (See Hedges, Wheeler, ass'r. Reissue.) Chalmers, Thous, and (See Hedges, Wheeler, ass'r. Reissue.) Chalmers, Thous, and (See Hedges, Wheeler, ass'r. Reissue.) Chalmers, Thous, and (See Hedges, P. W., assignor.) Chandler, Proderick, assignor to himself and C. A. Cousins. Chapter, Proderick, assignor to himself and Ebenezer D. Draper. Chapter, Antas H. Chapter, John B. Chapter, John H. (See Streeter, Alonzo, assignor.) Chever, John H. (See Mayall, Thos. J., ass'r. Reissue.) Chervy, John H. (See Mayall, Thos. J., ass'r. Reissue.) Chervy, John H. (See Mayall, Thos. J., ass'r. Reissue.) Chervy, E. B., stol, (See Shurer, C. M. assignor.) Chervy, E. B., stol, (See Shurer, C. M. assignor.) Chervy, E. B., stol, (See Shurer, C. M. assignor.) Chervy, E. B., stol, (See Shurer, C. M. assignor.) Chervy, E. B., stol, (See Shurer, C. M. assignor.) Chervy, E. B., stol, (See Shurer, C. M. assignor.) Chervy, E. B., stol, (See Shurer, C. M. assignor.) Chervy, E. B., stol, (See Shurer, C. M. assignor.) Chervy, E. B., stol, (See Shurer, C. M. assignor.) Chervy, E. B., stol, (See Shurer, C. M. assignor.) Chervy, E. B., stol, (See Shurer, C. M. assignor.)

List of patentees of inventions, designs, and reussues, 1862.

	Kendence.	Invention or discovery.	Date.
Clemens, Stillman A. Clement, Daniel B., assigner to C. B. Boyce & Co.	Milton, Mass	Hemp breakers. Colstee wringer.	Feb. 11, 1862. April 8, 1862.
Clements, James assignor to himself and Sedgwick Dean.	Ann Arbor, Mich	Can for fluids	Aug. 12, 1862.
Cleveland, S. E., assignor to Jonathan Muhew and Thomas	Buffalo, N. Y.	Lights, head, for locomotives	June 3, 1862.
Clerkley, Charles W. Clifford John C. (See Nimbs A. B. assienor.)	Providence, R. I.	Watch and locket cases.	March 4, 1862.
Clescold William	Dudbridge Works, Stroud, England Boston, Mass	Wool, machinery for oiling. Ranges, kitchen	Oct. 7, 1862. Jan. 7, 1862.
Olya Larles T Cloudy Theodore	New York, N. Y.	Lamps, manufacture of	
Clow, Abram	Port Byron, N. Y.	Boat, canal, attachmentof whiffletrees to the tow-lines of	May 1
Clow, Philip L, assignor to himself and Whicor Stone Coale, Charles. Coale, Charles. Coale, Charles.	Cobocs, N. Y. New Brighton, Pa.	Parkelings, seah Varnish, Japan	Dec. 2, 1862. April 1, 1862.
	Hadley, Mich	Rack, hay and grain	Oct. 7, 1862.
Cochran, Archibald P.	Louisville, Ky Milford, N. H		Aug. 26, 1862.
Cochran, Thomas. (See Witell, George L., assignor.)	Herbur Noeth Britein		Mar 19 1969
Cochrane, William Frazer	Springfield, Ohio	Threshers and separators, grain	17
Cochrane, William Frazer Cochrane, William Frazer	Springfield, Obio.	Threshers and separators, grain.	Jan. 14, 1862.
Cochrune, Wm. F., assignor to himself and Warder & Child.	Springfield, Ohio.	Mills, flour, hopper boys for	121
Cochrane, Wm. F., assignor to himself and Warder & Child. Cochrane, Wm. F., assignor to himself and Warder & Child.	Springfield, OhioSpringfield, Ohio	Threshers and separators, grain	Dec. 9, 1862.
Wm. F., assignor to bimself and Warder & Child.	Springfield, Obio	Threshore and separators, grain.	Dec. 9, 1862.
	Springfleld, Ohio	Threshers and separators, grain	် တိ
Cochrane, Wm. F., assignor to himself and Warder & Child.	Springfield, Ohio	Threshers and separators, grain	Dec. 9, 1862.
Cochrane, Wm. F., assignor to himself and Warder & Child	Springfield, Ohio	Threshers and separators, grain	်တ်
Coffing C. S. ussignor to himself and Wm. P. Hunt.	Augusta, Mich. Newton Centre, Mass.	PTCHARGE CINCERO.	June 24, 1862. May 97, 1862.
- po	Finicy, Onlo	Rakes, horse.	June 17, 1862
Cogawell, Mortimer C., and Addison G. Williams.	Buffalo, N. Y.	Dryers, grain hacks of (Dealer)	.,,

Lamping reflection and Aliming predested	, 507 Colburn, Guerre F. J.	New York		
Second Common Control Common Contr	Confirmed Company II. 1		Louis reflector and characteristics	Court of sour
Column C	330 Committee of the co	Nowark, N. J.	Lamps, applying reflectors to Protector	2 T-1
Polision City, Cal.	805 Colly, Daniel C.	Waterbury Vt	Partition In the matter of the contract of the	-
Camelon, Charles C. Property (Sections) Camelon, Mo.	Color, Charge	Polyom City Cal	Drawn and the form of production	71-11 - 1EGS
Colline, George, and Enote Piper. Colline, John R. Conting, R. Conting, John R. Conting, R. Conting, John R. Conting, R. Con	Colo, Cubert M.		a wante, transmit more of offerming	Dec. 16,
Colling George and Enoth Pier. E. L. saudgoor.) Connects. No. 2 Colling June 2 Colling June 3 Coll	Coteguovo, C. II., and	Womenton Mass	Wies. grave Prescolationally a	
Complete Complete	Coleman, Canrier C.		The state of the s	ALMY 20, 1802
Colling George, and Enote Piper. Cumaten, Parameter Cumaten, Param	Collin, John B. (See Fig. L. L.	:		
Coloring Junese	105 Collins, George, and	Camden, Me	Famps	
Continue of the Continue of	8	Farmington, Ill	Cultivators	Fob. 18
Committee, George T. Committee, George T. Committee, March Markahurat. Committee, March Milliam assignor to the William assignor assignor to the William assignor to the Wi	623 Colvin. L. O., and G.	Philadelphia, Pa.	Telegraphing by light	
Committee Comm	740 Colvin Bolant J	Lancoater Da	Sword and nistel combined	
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Commant, Group of Milwantic Lines (Commant, Forther Mass) Ploughts in contract (Commant, Hereal Commant, H				
Hardweight March Lange Contact, Charles Lange Contact, Charles Lange Contact, Charles Lange Contact, Charles Lange Contact, Lange Conta	Comstock, Cicero	Milwankie, Wis.	Ploughs, rotary	ရ
Constaint Reaching assignor to the Williamatic Conn. Labe: thread spools, machine to June	-	Hardwick Mass	Jacks lifting	
Secondary Contact Co	Conant Heathigh age	Willimontic Conn	Label thread angole machine to	June 10 1869
Milford, Man, Anna John R. Hall H. Assignor) Milford, Man, Anna John R. Hall H. Assignor) Milford, Man, Anna John R. Hall H. Assignor) Milford, Man, Anna John R. Hall H. Assignor) Naverich, Ohio Shells for rifted ordinance Jan. June John H. M. Anna John R. Hall H. Assignor to Heary Coulter Naver York N. Y Lung bander horders for the plane of the part of the plane of the part of the plane of the part of the plane of the part of the plane of the part of the plane of the part of the plane of the part of the plane of the part of the plane of the part of the plane of the part of the plane of the part of the plane of the part of the plane of the part of the plane of the part of the plane of the part of the plane	County Takes	Vonttom: V V	D. Commercial Commerci	
Council, J. M. and John S. Hall Newark, Ohio	_	TOTALOWE, IN L	77m1 O W B	dune o,
Septembro Control Part Control Contr	_			
Shells for right ordnance Jam.	_	Milford, Mich	Clothes-pin	Scpt. 9,
1982 Connective to the content of the content o		Newark Oblo	Shells for rifled ordnance.	lan 98
New York, N. Y. Commelly Joseph H. and John Cook	_	Wheeling Ve	Roller friends stone	1
Name	_	war in the second of the secon	Pounts tarringer, Bream	Jan. 21,
Court, Hamps haders for things and threading needles in Philadelphia, Passer, M.Y. Courted, Hamsh D. Courted, Hamsh D. Courted, Hamsh D. Courted, Hamsh D. Courted, Hamsh D. Courted, Hamsh D. Courted, Hamsh D. Courted, Hamsh D. Cook, George H. Cook, James Madla Hotchkiss. Cook, James Madla Hotchkiss. Cook, James H. Cook, James Madla Hotchkiss. Cook, James Madla Hotchkiss. Cook, James H. Cook, James H. Cook, James H. Cook, James H. Cook, James Madla H. Cook, George H. Cook, James H. Cook, James H. Cook, James H. Cook, James H. Cook, James H. Cook, James H. Cook, James H. Cook, James H. Cook, James H. Cook, James H. Cook, James H. Cook, James H. Cook, James H. Cook, James H. Cook, James H. Cook, James H. Cook, James H. Cook, James H. Cook, James H. Cook, Jam	_	W neeling, VB	Lain ps, wicks for	Aug. 20,
Court, Ernst E, ussignor to Henry Coulter Philadelphia, Pa Lawing shades, holders for Court, Innual Dayton, Obio Dayton, Mass Dayto	Conover, S. B.	New York, N. Y	Diggers, potato	June 3,
Court, Hannah D. Dayton, Ohio Dayton, Ohio Dayton, Ohio Dayton, Ohio Dayton, Ohio Dayton, Mass Control Dayton, Mass Control Dayton, Mass Control	Conrad Frust E. ass	Philadelphia, Pa.	Lamp shades, holders for	April 8.
Doston, Mass Doston, Mass Doston, Mass Doston, Mass Doston, Mass Doston, Mass Doston, Mass Doston, Mass Doston, Mass Doston, Mass Doston, Mass Doston, Mass Doston, Mass Doston, Mass Doston, Mass Doston, Oct. George II, and John and John Doston, Oct. George II, and John and John Doston, Oct. George II, and John and John Doston, Oct. George II, and John Doston, Oct. George II, and John Doston, Oct. George II, and John Doston, Oct. George II, and John Doston, Oct. John and John Doston, Oct. John and John Doston, Oct. John and John Doston, Oct. John	Council Houngh D	Dayton Ohio	Sawing machines setting and threading needles in	P. 10
Cook, George, assignor to himself and Wm. Scarlett. Einfin, N. Y. Cook, George, assignor to himself and Wm. Scarlett. Decok, George, assignor to himself and Wm. Scarlett. Cook, George, H. and Jaa, Jenkins. (See Jenkins. & Cook.) Cook, George, H. and Jaa, Jenkins. & Cook. Cook, G. W., and Z. E. B. Nath. Cook, G. W., and Z. E. B. Nath. Cook, John, and Jos. H. Connelly. (See Connelly. & Cook.) Cook, John, and Jos. H. Connelly. (See Connelly. & Cook.) Cooke, James C. assignor to himself and Julius Hotchkiss. Cooke, John. (See Purit., John.) Ir. assignor.) Cooke, John. (See Purit., John., Ir. assignor.) Cooke, John. (See Purit., John., Ir. assignor.) Cooke,		Double Mone	Could manahine for anting	405
Cook George H. Cook	_	Toloring M. W.	Course, macanage to cutture construction	
Cook, George, assignor to himself and Wm. Scarlett. Bristol Station, III. Cook, George H., and Jaa, Jenkins. & Cook.) Cook, George H., and Jaa, Jenkins. & Cook.) Cook, George H., and Jaa, Jenkins. & Cook. Cook, George H., and Jaa, Jenkins. & Cook. Cook, George H., and Jaa, Jenkins. & Cook. Cook, Jenkins. & Cook. Cook, Jenkins. & Cook. Cook, Jenkins. & Cook. Cook.	_	Elmira, N. Y	premiliare	MBy 20, 1802.
100 Cook Govrge H. and Jas. Jenkins & Cook.	_	Bristol Station, Ill	Harrows	June 10,
Cook George H., and Jas. Jenkins. (See Jenkins & Cook.) St. Paul, Minn Pumps P	_	New Brunswick, N. J	Tobacco pipes, compositions for lining	Jan. 7,
Cook G. W. and Z. E. B. Nash St. Paul, Minn Pumps Pumps April	Cook George H. and Jas. Jenkins.			
Cook, James M. Cook, James M. Cook, James M. Cook, James M. Cook, James M. Cook, James M. Cook, James M. Cook, James M. Cook, James C. awsignor to himself and Julius Hotchkiss. Cook, James C. awsignor to himself and Julius Hotchkiss. Cooke, John. (See Purit, John, Jr., analgnor.) Cooke, John. (See Purit, John, Jr., analgnor.) Cooke, John. (See Purit, John, Jr., analgnor.) Cooke, John. (See Purit, John, Jr., analgnor.) Cooke, John. (See Purit, John, Jr., analgnor.) Cookey, A. B. Philadelphia, Pa. Propeller, adjustable, reversible May Philadelphia, Pa. Propeller, adjustable, reversible May Philadelphia, Pa. Propeller, adjustable, reversible May Philadelphia, Pa. Propeller, adjustable, reversible May Philadelphia, Pa. Propeller, and under the Mr. Verroon, N. Y. Window-sach and acting mah therein June May April Greek, Mich. Cooker, John W. Verroon, N. Y. Window-sach and acting mah therein June April Cooker, Junes Maulin Gratis, Ohio Churan, See Cooker, John, and George P. Martin Quantum Churan, June C	Cook O W and Z W B Noch	St Dani Minn	Pumne	Mar 11 1869
Cook John, and Jos. H. Connelly. (See Connelly & Cook.) Saratoga Springs, N. Y Lunch-box Cooke, James M. Connelly. (See Connelly & Cook.) Cooke, John (See Petric, John, Jr., assignor.) Chicago. III Cooley, Asshel Cooley, A. B Cooley, A. B Cooley, Honry H Cooley, Honry H Cooley, Honry H Cooley, Honry H Cooley, Honry H Cooley, Honry H Cooley, John W Cooley, John W Cooley, Honry H Cooley, Honry H Cooley, John W Cooley, Honry H Cooley, John W Cooley, John W Cooley, Honry H Cooley, John W Cooley, John	-	Tourson Moss	Engine lesomotive signs mechanism for	8
Cooke, Jame C., weignor to himself and Julius Hotchkiss. Cooke, Jame C., weignor to himself and Julius Hotchkiss. Cooke, Jame C., weignor to himself and Julius Hotchkiss. Cooke, Jame C., weignor to himself and Julius Hotchkiss. Cooke, Jame C., weignor to himself and Julius Hotchkiss. Cooke, Jame C., weignor to himself and Julius Hotchkiss. Cooke, Jame C., weignor to himself and Julius Hotchkiss. Cooke, Jame C., weignor to himself and Julius Hotchkiss. Cooke, Jame C., weignor to himself and Julius Hotchkiss. Cooker, A. B. Cooker, A. B. Philadelphia, Pa. Philadelphia, Pa. Philadelphia, Pa. Philadelphia, Pa. Philadelphia, Pa. Cooker, June Markin Cooker, June Markin Cooker, June Markin Cooker, June Markin Cooker, June Markin Cooker, June Markin Cooker, June Markin Cooker, June Markin Cooker, June Markin Cooker, June Cooker, June June Cooker, June Markin Cooker, June Markin Cooker, June Cooker, June June Cooker, June Cooker, June June Cooker, June Cooker, June June Cooker, June Cooker, June June Cooker, June Cooker, June June Cooker, June Cooker, June June Cooker, June Cooker, June June Cooker, June Cooker, June June Cooker, June Cooker, June June Cooker, June Cooker, June June Cooker, June Cooker, June June Cooker, June Cooker, June June Cooker, June Cooker, June June Cooker, June Cooker, June June Cooker, June Cooker, June June Cooker, June June Cooker, June June June Cooker, June June June Cooker, June June June Cooker, June June June Cooker, June June June Cooker, June June June Cooker, June June June Cooker, June June June Cooker, June June June Cooker, June June June June Cooker, June June Ju	Cook, James at	* " " " " " " " " " " " " " " " " " " "	THE THORY TO COMPANY OF BURNING THE CHARLES TO THE TOTAL TO THE THE THE THE THE THE THE THE THE THE	î
Standard Cooke James Cooke James Cooke James J	Cook, John, and Jos. H. Connelly.			;
468 Cooke, Jamee C., awignor to himself and Julius Hotchkiss. Middletown, Conn Fire-arms June 509 Cooke, John (See Furit, John, Jr., sasignor.) Chleago, Ill. Pumps Pumps Pumps 805 Cookey, A. B Philadelphia, Pa. Propolets, adjustable, reversible April 806 Cookey, A. B Philadelphia, Pa. Propolets, adjustable, reversible April 806 Cookey, A. B Philadelphia, Pa. Propolets, adjustable, reversible June 806 Cookey, A. B Philadelphia, Pa. Propolets, adjustable, reversible June 806 Cookey, Janny Philadelphia, Pa. Propolets, adjustable, reversible June 81 Cookey, Janny Window, and acting such therein June 81 Cooker, Jannes Maslin Gratis, Ohio Axies, railroad Axies, railroad 82 Cooperr, Jannes Maslin Cooker, Jannes Maslin Cooker, Jannes Maslin Axies, railroad 82 Cooperr, Jannes Maslin Cooker, Jannes Maslin Cooker, Jannes Maslin Axies, railroad 82 <	243 Cook, Ransom	Saratoga Springs, N. Y	ranch-box	Jan. 28, 1862.
Cooke, John. (See Fürric, John, Jr., analgmor.) Chicago, III. Pumps Pu	488 Cooke. James C., agrig	Middletown, Conn	Fire-arms	က်
Chicago, III Pumps	_			
867 Cooley, A. B Philadelphia, Pa Protesties adjusted, reversible April 287 Cooley, A. B Philadelphia, Pa Properties, adjusted of disharging June 287 Cooley, A. B Philadelphia, Pa Properties, adjusted of disharging June 702 Cooley, A. B Partice Creek, Mich Cooley and of decentries Oct. 702 Cooley, Honry H Cooley, Mark Cooley and of decentries Oct. 84 Cooley, James Madin Cooley, James Madin June June 94 Cooper, James Madin Cooper, James Madin Axies, railroad Aries 95 Cooper, Danes Madin Cooper, James Madin Cooper, James Madin Aries 139 Cooper, James Madin Cooper, James Madin Charactes June 251 Cooper, James Madin Charactes June June 252 Cooper, James Madin Charactes June June 253 Cooper, James Madin Charactes June June 254 Cooper, James Madin	g	Chleam III	Pumps	Jane 10.
Philadelphia, Pa. Propeller, adjustable, reversible Naya. Naya. Propeller, adjustable, reversible Naya.	3 8	Dhile, lelphia Da	Plasting battory	The V
Examinate plant Pullidelphia, Parameter and the pullidelph	è	Della della	Duran House affectively assessmile.	1
State Cooley A. B. Properties, mode of discharging June	513	L'uniageibuig, L'a	rropeners, adjustable, reversible	DIRY 13.
	88	Philadelphia, Pa	Projectiles, mode of discharging	June 17,
	5	Battle Creek, Mich	Pumps, force, pistons for	Oct 21, 1
1	438	Mt. Vernon, N. V.	Joal-scuttles	June 3
Cooper, James Maalin Cooper, James Maalin Cooper, N. B. Coplend, John, and George P. Martin Onever to the Copletion of the Co	_	Ithorn N V	Window-sash and satting souh thanking	
Cooper, Junes manin Cooper, N. Collivatora Cooper, N. Cooper, Martin Cooper, N. Cooper, Martin Cooper, N. V. Cooper, Martin Now York N. V. Times	_	Ditt.bus Da	A white williand	
Cooper, N. B. Control of Control	_	Little Ourg, Fa.	Axles, rullfond	April
Sigist Conjedind, John, and George P. Martin	8		Ullivators	Aug. 12, 1862
Contact F W	-		Churns	7.
			Camera stand	June 24.

List of patentees of inventions, designs, and reissues, 1862.

No.	Name.	Residence.	Invention or discovery.	Date.
1,567	80000	New York, N. Y	Show-case(Design)	April 22, 1862.
98,89,89,89,89,89,89,89,89,89,89,89,89,8		Sprugue, Conn Providence, R. I. Providence, R. I. Providence, R. I. Providence, R. I. Providence, R. I. Providence, R. I. Providence, R. I. Providence, R. I. Providence, R. I. Providence, R. I. Providence, R. I. Providence, R. I. Providence, R. I. Providence, R. I. Boston, Mass. Washington, D. C.	Warps, machinery for dressing and sizing Boilers, steam Boilers, steam Boilers, steam, from priming, method of preventing Condenser, surface. Steam generators Casting metals, moulds for Iron tubing, manufacture of Knee-joints, artificial	Nov. 4, 1862. Aug. 26, 1862. Aug. 26, 1862. Aug. 26, 1862. Aug. 26, 1862. Nov. 19, 1862. Aug. 12, 1862. Dec. 9, 1862.
1, 295 35, 140 34, 625 34, 408	Coulter, Henry, (S Coupier, Jean Theo to Coe S. Buchan Court, Edward Courter, D. A Cousins, C. A. (See Covell, Edward T.	New York, N. Y. Coeymans, N. Y. Beloit, Wis. New Bedford, Mass	Paper stuff, preparation of. (Reissue) Mar. 25, 1862. Vehicles, wheel, brake for. May 8, 1862. Pistol with a sword, combining a. Mar. 11, 1862. Lamps Feb. 18, 1862.	Mar. 25, 1862. May 8, 1862. Mar. 11, 1862. Feb. 18, 1862.
36, 34, 197 35, 384 36, 375 36, 375 36, 375 375 375 375 375 375 375 375 375 375	Cowel, Joel, Jr., and E. Edwards. (See Edwards & Cowel.) Cowing, John P Cowles, Lorenzo D Cox, Ridwad. Cox, Sun'l A., dee'd, assignor, through mesue assignments, To George P. Cox, adm'r of said Sam'l A. Cox, dee'd. Cox, Thomas S Cox, Whitemas, and Cox. (See Smith & Brown, assignore).	Remea Falla, N. Y Armata, Mich Covington, Ky Maden, Mass Lafayette, Ind	Bell yoke and fastening. Carringes. Amon-plates, defensive Raliroad chairs, wrought-iron, machine for bending the lips of. Reissue. Mills, sugar	Nov. 18, 1862. Jan. 21, 1862. May 27, 1862. Aug. 12, 1862. Sept. 23, 1862.
25882834 E	Craig. Heary Crandal, Isaac Crandal, Isaac Crandal, Jesso A Crandal, Jesso A Crandal, Jesso A Crandal, Jesso A Crandal, Josso A Cranda, A Cranda, A Cranda, John W Crandal, Jo	Cleveland, Ohlo Middlefted, N. Y Now York, N. Y Hoboken, N. J Chooken, N. J Chocago, III Rochenter, N. Y Rochester, N. Y Reptagoet township, Mich Rochester, M. Y Ringport City, Pa.	Microscopes Wayons, pleasuro Toy, rocking Boat, bridge and tent convertible Roat, bridge and tent convertible Plopes, strom to bot-sir Plopes, strom to bot-sir Axtes for vehicles Furneces, steam bollers Flower stand	Feb. 18, 1865 Mar. 11, 1865 Mar. 11, 1865 Mar. 16, 1867 Sept. 2, 1867 Oct. 28, 1867 Dec. 2, 1867 Dec. 2, 1867

Aug. 19, 1962. Jon. 9, 1962. May. 6, 1962. F. P. B. B. B. B. B. B. B. B. B. B. B. B. B.	Sept. 30, 1862. Ang. 5, 1862. Sept. 16, 1882. Bopt. 10, 1882. Bopt. 29, 1882. July 29, 1882. July 29, 1882. Aug. 5, 1862. Aug. 5, 1862.	Oct. 14, 1862. Feb. 11, 1862. Oct. 28, 1862. Drc. 2, 1862. July 22, 1862. April 8, 1862. Sept. 9, 1862.	Aug. 26, 1862. April 22, 1862. Nov. 11, 1862. May 20, 1862. Juno 24, 1862. Jan. 21, 1862.	Aug. 19, 1962. Mar. 25, 1862. Mar. 4, 1862. Mar. 4, 1863. May 27, 1863. June 10, 1862.
te decrete (therefore) (couples we have a controller for cutting Cortes for steppers, must have for cutting Paper pulp, machinery for cleaning Holsting machines Looms, weaver's top rail of	Gold, fine particles of, machinery for collecting and amalagementing, folded, machines for producing. Trimmings, tape, mandifacture of Friling and crimping, matchines for Epiling and crimping, matchines for Chair, folding. Boilers for culianry purposes Chair, folding. Belated, expanding Belated, expanding Belated and dressing machines Flax cleaning and dressing machines Sugar evaporators	Steam generating apparatus Clothes wringer Hames, adjustable Water-wheels Door-knobs to their spindles, mode of attaching Burner, kerwene oil Threshing machines, method of operating stakers of	Gunpowder, cylinders for polishing Water-elevators Dome or cupola, shot-proof. Window-sushes Hats, sweat-leather ventilators for Pitchers, ice Cultivator tooth	Lamps, coal-oil Lamp-burner. Hinges and books Churus, apparatus for operating Sweeping machines, street. Ores, extracting copper from
N. W. V. P. N. V. M. V. M. V. M. V. M. V. M. V. M. V. M. V. M. V. M. V. M. V. M. V. M. V. M. V. M. V. M. V. Worcester, Mass.	Greene, Me New Haven, Conn New Haven, Conn Harford, Conn Washington, D. C New York, N. Y New York, N. Y New Horling, Mass Chelster, Mass Marion, Iowa.	Hudson, N. J. Worcester, Mass. Enfield, N. H. Enfield, K. H. Marriden, Conn. Perritand, Me.	Schaghticoke, N. Y. Brooklyn, Olito. Hallowell, Me Bradford, Vt. Charlestown, Mass New York, N. Y.	Norristown, Pa Norristown, Pa Newark, N. J San José, Cal Cranston, R. L Swansea, Glamorganabire, G. B.
Create to the control of the control	Cresby, Augustine B., and Jesso Ladd. Crosby, C. O., and Henry Kellogg Crosby, C. O., and Henry Kellogg Crosby, William H Crosby, William H Crosby, William H Cross, Nelson Crowell, Luther C Crowell, Luther C Crowell, J. L. Crowell, J. L. and L. J. Johnston Crowely, J. L. and L. J. Johnston Crumb, W. and W. H. Pulmer, (See Palmer & Crumb.) Cuisinier, J. F. J., and A. H. Lepley, (See Lepley & Cui-	stnier, J. E. Culver, J. E. Cunanings, Charles A., Cummings, Duniel M., and J. P. Carr. Cummings, Duniel M Cummings, G. N. Cummings, Perley D Cummings, Perley D Cummings, Perley D Cummings, Perley D	Cunningham, R. H., assignor to Wm. P. Bliss. Cunningham, R. H., assignor to Wm. P. Bliss. Currier, Alexander C. Currier, J. B., and A. J. Simpson. (See Simpson & Currier.) Currier, J. B., and A. J. Simpson. (See Simpson & Currier.) Currier, J. B., and Alexa Tufts Curris, Herbert and Alfred Tufts Curris, Strephen, Jr., issignor to himself and Henry Yalo. Curris, & Yale. (See Treat) I. Lawson, assignor, J. Currier, G. George, assignor to self. E. B. Root, and John J.	Stevens. Custer, George Y Custer, A. J., and William F. Grassler. (See Grassler & Custer, Dutter) Cuypers, Francis II. Dabuny, G. A. Dabul, William W Wilbelm.
3, 945 3, 945 3, 945 3, 945 3, 945 1, 562	8 886887688 8 66888688 6 66888 6 6688 6 66888 6 66888 6 66888 6 66888 6 66888 6 66888 6 66888 6 66888	88.83 88 88 88 88 88 88 88 88 88 88 88 88 8	86.50 86.55 E	87 3538 86 8888 ized by Google

List of patentees of inventions, designs, and reissues, 1862.

Date.	Nov. 11, 1962.	April 29, 1962. July 8, 1962. Feb. 11, 1962. Kept. 23, 1962. May 13, 1862. Dec. 23, 1962. Dec. 23, 1962. April 29, 1962.	Aug. 5, 1862 Feb. 18, 1882 Dec. 16, 1882 Feb. 18, 1862 April 8, 1862 Nov. 11, 1862 Feb. 4, 1862	April 8, Jan. 7, Aug. 25, Mar. 25, May 13,	Dec. 2, 1862. Oct. 28, 1862. May 20, 1862. Sept. 9, 1863. Feb. 4, 1863.	Sept. 16, 1869. Jun. 28, 1862. Aug. 19, 1862. Dec. 2, 1862.
Invention or discovery.	Rakes, horse	Thread, sewing, machinery for dressing. Clothes writingst Hannes, fastening for Thes, machines for upsetting. Culitystors Harvesters Vehicles, springs for	Lanterns, wind-breakers for Corn-abeliers Corn-abeliers Corn-abeliers Corn-abeliers Corn-abeliers Spilors, water Spilors, extension Arratra Harvows, seed-sowing Washing machines	Grazing sheep and other animals, method of Harvesters Refrigerator Stove-pipe thimbles	Ordnance, elastic breech for Cot, hammock Telegraphs, instruments for Skrivoscopes. Card-holder Card-holder	Stoyes, cooking, or ranges. Hauters for passenger curs. Etherse for passenger curs.
Residence.	Моття, Сопъ	Pawtucket, R. L. Boston, Mass. Boston, Mass. Boston, Mass. Miton, In. White Greek, N. Y. Masilion, Ohio	Chicago, III. Philadelphia, Pa. Chicago, III. New York, N. Y. Almeda county, Cal. Alleghany City, Pa. Providence, R. I.	Medina, N. Y. Syracuse, N. Y. Philadelphia, Pa. Portland, Me. Troy, N. Y.	New York, N. Y. Jerrey City, N. J. Balston Spa, N. Y. Watertown, Conn. Worcester, Mass	New York, N. Y Abington, Muss. Keebreek, N. U
Name.	Dale, John G., and Nathaniel Lloyd. (See Lloyd & Dale.) Daley, George H. (See Treat, Robert M., assignof.) Daley, George H., and Robert M. Treat. Dalymple, D. D., and J. Thompson. (See Thompson & Dalymple).	Daniels, John E., and George S. Kondall Daniels, John E., and George S. Kondall Danielson, G. Danielson, G. Danielson, G. Danier, John E., and John H. Balch Davidson, E. McC. (See Welch, James A., awsgrory) Davidson, E. McC. (See Welch, James A., awsgrory)	Vm. Johnson. homas Crook, nor to Edwar assignor to He	Davis, Sunuel M. (See Holston, John G., assignor.) Davis, Sincon C. Davis, Theodore D., and John M. Waldron Davis, Thomas M. Davis, William Wentworth Davy, John T. Dawdy & Benfield. (See Benfield, E. M., assignor.)	Day, Hornee H. (See Bird, J. N., aasignor.) Day, Jones H. (See H. Day, J. C. Day, Jube, and Volhey R. Beach. (See Beach & Day.) Day, Sanuel F. Dayton, Frederick, and W. S. Kelly Dean, John, and Sanuel P. Emerson Dean, John	Deane, Royal E Dearborn, G. K., ra Dearborn, Jonethau De Brune, J. A.
No.	36,897	ងុងុង នូងុខុងុខ ១ ១៦១១១១១ ១	28.88.89.89.89.89.89.89.89.89.89.89.89.89	Digitized by	600de 85, 88, 8, 85, 88, 8, 85, 88, 8, 85, 88, 8, 85, 88, 8, 85, 88, 88, 88, 88, 88, 88, 88, 88, 88,	36, 455 34, 950 36, 907 37, 981

3. O. A. C.	Declara, Gregory West Jeal, O. J., anagror.) Declarary Francisco. His and Augustus J. Scoyillo. (See	Derrysburg, Pa.	Mank-ahoppor, rotailng.	April 33, 1868.
36, 142 36, 510 36, 677	Smooth L. & L. L. M. D. De Porest. De Forces, Linnan B. M. awignor to soff and Thos. B. De Forest. De Forces, Thomas B. Masignor to the Shelton & Osborn Skirlt Commany and L. & C. H. De Forest.	Albany, N. Y. Birmingham, Conn. Birmingham, Conn.	Windiass, horse-power Bustles, fastening hoop-ends in tabs of Skirts, hooped, apparatus for attaching clasps to	Aug. 12, 1862. Sept. 23, 1862. Nov. 4, 1862.
36, 341 34, 936 34, 936	Defenser, Joseph Degelow, G. Fredorick De Guilnon, R. V., and Geo. W. Barclay, assignors to John A. Marshould	Paris, Franco Bethlehem, Pa Hudson, N. J.	Lamp, safety Wood, the grain of, process of imitating. Presses	Sept. 2, 1862. Sept. 16, 1862. April 15, 1862.
35, 510 36, 208	De Haven, James 8.	North Springfield, Ohlo	Drills, grain Hay, machines for loading and pitching	June 10, 1862. Aug. 19, 1862.
8,8,8,8 8,11,4,6,811	Definition Heary Definite, Heary Definite, Francis De Mey Ferdinand A Denies, Francis De Mey Ferdinand A Denieso, C. H., and H. N. Houghton, (See Houghton &	Paris, France Covert, N. Y. Boston, Mass. New York, N. Y.	Wood, process of preserving. Harrows Centring implement Ordnance, field, mounting.	July 8, 1862. Oct 14, 1862. Feb. 18, 1862. Sopt. 16, 1862.
4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,	Denison, George D. Denison, George D. Denison, Jacob Dennis, J. H. Dennis, J.	Troy, Ohio Washington, D. C. Marion, Iowa Louisville, Ky Louisville, Ky Louisville, Ky Louisville, Ky Sweden, N, Y New York, N, Y	Register, grain Air engines Ashing machine. Cars, railroad, running grar of Railroad turn-tables Springs, omnibus Farres on struct railway cars, mode of collecting. (Reissue) Fire arm, breech-loading, tov	Jan. 7, 1862. Dec. 16, 1862. Jan. 14, 1862. Jan. 14, 1862. Jan. 14, 1862. Jan. 14, 1862. Jan. 14, 1862. Jan. 18, 1862. Jan. 18, 1862.
98, 550 94, 728 74, 6413 413 414 414	See Concklin, John C. assignor.) ' D. Gance, and Louis Hanzo. C. Hunt. (See Hunt & Devin.)	New York, N. Y. New York, N. Y. New York, N. Y. Valley township, Mo. Sacramento, Cal.		Sept. 30, 1862. Mar. 21, 1862. Feb. 18, 1862. Mar. 18, 1862. Feb. 18, 1862.
Digitis		Crefeld, Prussia. Cloveland, Ohio Randolph, N. Y Mendville, Pa. Mendville, Pa.	Lubricators Harvesters Wheel-hubs, box-setters for Presses Presses Calel, apparatus for using mineral oils as Clothes-wringing machines	Oct. 21, 1862. Jan. 7, 1862. April 22, 1862. Sept. 24, 1862. Oct. 28, 1862. Feb. 18, 1862.
EESTES ESTESSES EESTESSES	chino Company. Dickie, Edward P. Dickinson, John Dickinson, Martin L. Dickson, Perry Dickson, Perry Dickson, Perry Dickson, Perry Dickson, Perry	Fishkill Landing, N. Y. New York, N. Y. Wert Troy, N. Y. Newcastle, Pa. Utles, Minn.	Lamps, chimney for Millstones, apparatus for dressing Brush, whisk Iron, abevet, manufacture of Water-wheel Land conveyance, propellers for	Feb. 4, 1862. Oct. 29, 1862. Sept. 30, 1862. Neb. 4, 1862. May 27, 1862. Nov. 25, 1862.

List of patentees of inventions, designs, and reissues, 1862.

	Date.	21, 1862. 15, 1862. 15, 1862. 17, 1862. 17, 1862. 117, 1862. 11, 1862. 15, 1862.	20, 1862. 11, 1662. 11, 1662. 18, 1862. 11, 1862. 11, 1862.	April 1, 1862. July 15, 1862. May 13, 1862. June 24, 1862.	29, 1862 18, 1862	2 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -
	<u> </u>	Oct. April Feb. April Nov. June Dec. June Feb.	May 20, 1 Feb. 11, 1 Mar. 4, 1 April 8, 1 May 6, 1 Nune 24, 1 Nov. 11, 1	April July June	July 2 Feb. 1	Dec. 23, April 1, July 29, July 29, July 29, Sept. 23, Mar. 18
•	Invention or discovery.	Paper, vegetable, composition for treating. Land, machines for marking and furrowing Boole and above, fender or sheath for Saw-frames, wood Soles, channelling tool for Governor, centritingal Cars, railroad, brakes for Separators, grain Separators, grain Springs, assh Cioth, felt, &c., water-proof coating for	Tobacco ponches Stave machines, bed-plate of Veneers, machines for cutting Saving machine. Save machine. Barrel-beads, circling and beveling machine Planing and matching machine combined. Staves, machine for jointing and dressing	Pumps Steam gauge Pumps Cultivators	Car couplings Lamps	Lamps, coal-oil, burners for Cartridge box Cartridge box Cartridge box Lamps, coal-oil, burners for Fire-strue, magazine Wrenche, pilye Ducking machines Cartridge, machines Cartridge, machines Cartridge, water providing
	Residence.	New York, N. Y. Hempstead, N. Y. Turner, Me. Lyun, Mas. Wheeling, Va. Pittafled, Mast. York, Pa. Philadelphia, Pa. New York, N. Y.	New York, N. Y Chicago, III Chi	Camden, N. J. Camden, N. J. Newburg, N. Y. Adel, Iowa.	Kasoag, N. Y. New York, N. Y.	Brooklyn, N. Y. New York, N. Y. Burgettstown, N. J. Burgettstown, N. J. Burgettstown, Com. Derby, Com. Dunville, N. N. New York, N. V. New York, N. V. New York, N. V. New York, N. V. New York, N. V. New York, N. V. New York, N. V. New York, N. V. New York, N. V. New York, N. V.
	Name.	Dikeman, Clarence S. Dikeman, J., Remsen and J. J. Hewlett Dillingham, John. assignor to Jesse Follett Dillingham, John. Dillon, James, assignor to self and John B. Nichols Dillon, James M. Dillon, James M. Dillon, James M. Dillon, James M. Dillon, James M. Dillon, James M. Dillon, James M. Dillon, James M. Dillon, Joseph. Dillon, Joseph. Dixon, C. P., and Edward Learned. (See Wilson, James	Dixon, Ruita E. Doune, William H. Doune, William H. Doune, W. H. Doune, W. H. Doune, William H. Doune, William H., and William E. London. Doubins, Jacob. Doubins, Jacob. Doubins, Jacob. Doubins, Jacob.	A. S. (See Hoorge H. G., and J.). Levi P. Ceri	Dodge, Thomas H. (See Brown & Burliett, assignors.) Dodge, Thomas H. (See Brown & Barliett, assignors.) Dodge, Thomas H. (See Brown & Barliett, assignors.) Dodge, William James Dodin, Joseph.	Dodin, Joseph. (See Whitcomb. J.mee O. assignor.) Dodin, Joseph. Domis, Adam. Donnis, Adam. Donnis, Junes Doolitie, Junes Doolitie, Junes Docitie, Oseur Docitie, Oseur Docitie, Oseur Docitie, Oseur Docitie, Oseur Docities, R. O. and B. L. Budd
	No.	8888888888 8888888888	8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.	88.88 18.88 18.88 18.88	35, 994	0000 688888888888

Auf. 5, 1643, Nov. 4, 1895, Aug. 26, 1862, Fept. 30, 1862, July 15, 1862, July 18, 1862, July 8, 1862, July 8, 1862,	Dec. 9, 1862. April 8, 1862. July 8, 1862. Nov. 25, 1862. May 6, 1862.	June 17, 1862. Feb. 25, 1862. April 15, 1862. Sept. 20, 1862. Sept. 20, 1862. June 20, 1862. J	Mar. 18, 1862. May 27, 1862. Dec. 16, 1862. Dec. 23, 1862. May 20, 1862. April 15, 1862.
Leauny topics and the following the following the following machine for sessing the following machine for sessing the following following the	Cultivators Fire-arm, repeating Cohuming, power for Cost-sing, or carrier Ar, apparatus for earbiretting Bottle (Design.)	Shells, exploding, dovice of. Cans for transportation, packing Amalgamating gold, machine for Bridges, mode of building Bridges, mode of constructing, setting, and removing Bridges, mode of constructing, setting, and removing Bridges, mode of constructing, setting, and removing Calculative, portable Calculative, portable Calculative, portable Shoring soles to boots and shoce, machines for Sewing soles to boots and shoce, machines for Saddies Engines, steam, lubricator for Rope to fibre, machinery for reducing	Cartridge-cases, metallic Cloth-plating machines Tourniquets Tourniquets Culiny obtile-stopper Culiny and seed-machine, combined Skates Threshing-machines
Chicas, S. V. Chicas, III. Bernalyin, N. Y. Bernalyin, N. Y. Admawyille, Ohlo English Neighborhood, N. J. English Neighborhood, N. J. Middletown, Com Middletown, Com Henderson, Minn	Waterloo, In Indianapolis, Ind Findianapolis, M.J. Semeritis, M.J. Boston, Muss. Binghampton, N. Y.	Circleville, Ohlo New York, N. Y Chicago, Ill Williamsport, Pa Williamsport, Pa Williamsport, Pa Williamsport, Pa Mitchell, In Mitchell, Ind Milesburg, Pa Milesburg, Pa Abington, Mass Abington, Mass Abington, Mass Abington, Mo Washington, D. C Boston, Mass	Bridgeport, Conn New York, N. Y Philadelphia, Pa. Philadelphia, Pa. Atlanta, III Utica, N. Y Hamilton, Obio.
Positions Christians C	A. Doyle, L. II. Doyle, L. II. Diueger, Charles, assignor to himself and John Ott Diuke, A. A. A. Drinke, Oliver P. Drinke, P. II. Drinke, P. II.	e, and Charles Pratt e, and Charles Pratt (See Hernly, Jacob H., sasignor.)	C., sasignor to Irving Hull 138, et el. (See Uren, Dunstone, & Blight.) H H sasignor to Owens, Lane, Dyer & Co
28 - 18842443883 68 - 18842443883 69 - 1884285 888438	37, 069 37, 9813 37, 020 1, 588 1, 588	88. 98.88.99.89.89.88.89.88.88.98.88.89.89.8	### ##################################

List of patentees of inventions, designs, and ressues, 1862.

		Antended of mecovery.	Date.
Eads, James B. Eagle, James B. Eagle, Robert Nelson Eggle, Robert Nelson	St. Louis, Mo. St. Louis, Mo. New York, N. Y. Migord, Mana	Vessels, war, turret for Propellers, wave, for shallow water Lampa, snuffers for Stirrupe, riding Roti trees Roti trees	April 29, 1862. Dec. 16, 1862. Sept. 30, 1862. Dec. 16, 1862.
Eames, Cuerts Eames, Lovett Eames		Hydraulic apparatus Water energy Water every for forming leather strang for	Sept. 9, 1862. Sept. 9, 1862. Sept. 9, 1862.
gnor to himself and G	New Haver Clarksburg	Clothes frame Cradles	'nĠ.
Earlshaw, John B.	Bridgeport, Conn.	Monument (Least railroad passenger, settees for (Least railroad passenger, settees for (Least railroad passenger)	£ 01
Easterbrook, M., and J. M. Wood. assignor to themselves and J. A. Wood.	Geneva, N. Y.	w mow, machines for peeling(Relisate.)	Jan. 21, 1862. Sept. 2, 1862.
Easterly, James, assignor to himself and Dennis G. Little- field.	Albany, N. Y.	Stoves	Feb. 25, 1862.
Eastman, Harry, et al. (See Pratt, William E., assignor.)		F	
Eaton, C. E.	Now York, N. Y.	Fences Soap, manufacture of	Oct. 7, 1862. Aug. 26, 1862.
Eaton, Gilbert C., and Samuel W. Turner	Cleveland, Ohio	Gun, centrifugal	Dec. 16, 1862.
Eaton, Richard, and Joseph Marks. (Sec Marks & Eaton.)	DOBLOTI, Made	Spiritudes 101:	May 0, 1602
Ebbitt, William See Rondol A pasionor)	Now York, N. Y.	Car-axles, boxes for	Mar. 18, 1862.
3			
Ecker, John J. (See Rindael, A., ussignor. Aveisbae.) Eckerson, Adam, and J. H. Reury	Pleasant Brook, N. Y.	Washing machine	Jan. 7, 1902.
Eckerson, O. D., and C. Watson.	Middleburg, N. Y.	Water elevators	Feb. 11, 1862.
Eddy, Charles, & Co. (See Norton, Marcus P., assignor.) Eddy Charles, & Co. (See Hyde James R. assignor.)	Council, Mass		a,
;	North Bridgewater, Mass	Cribs for horses(Relasue.)	April 8, 1862.
Edgerton, Henry. (See Hope, Thomas, assignor.)	North Bridgewater, Mass	Cribs for horses	Aug. 26, 1862.
Edge, Isase, and Charles C. Hyde	Jorney City, N. J.	Signals, night, mode of firing	April 28, 1862.
Edgecomb, Joseph	Newfore N V	Sowing muchine for	Jac. 14 1862.
Edwon, Ambler	Cambridge, Ill.	Washing machine	Oct. 8, 1862
Edwards, A. F. W., and Thomas A. Timmins. (See Tim-	Boston. Mass	(Jun-regulatora	
mins & Edwards.) Edwards, D. and Jood Cowes, jr. Edwards, Edmund, et al. (Sea Morgan, Jny, Edwards &	Keene, N. II	Chair backs, machines for cutting	Mar. 18, 1862

Jun. 28, 1803 Oct. 28, 1803 Mar. 11, 1803 May 27, 1803, Feb. 11, 1803,	April 1, 1602. April 1, 1602. Mar. 18, 1662. July 29, 1802.	Jan. 7, 1862. May 13, 1862. May 13, 1862.	July 15, April 8, Oct. 7,	Jan. 28, 1872. Feb. 4, 1862. Nov. 18, 1862. Aug. 26, 1862. April 22, 1862. April 22, 1862. Mar. 11, 1862.	Dec. 16, 1862. Aug. 19, 1862.	April 29, 1862. June 14, 1862. Jan. 14, 1862.	Sept. 16, 1862. Oct. 28, 1862. Dec. 16, 1862.
Forecast Retail, mode of titling Proceedings (Description of titling Proceedings, shutter (Description)	t-off rines,	Refrigerator Pricema. breech-loading Battery, submarine, connected with a beat or other vessel, operating a.	Cartridge, patched. Clothes-wringing machines Clothes-wringing machines for attaching heels to, and notishing the same.	@ I X O X A O I M	Windlass, ships' Bayonets, steel scabbard for	Tools to their handles, mode of flattening(Relisine) Mowing machines	Clothes-wringing machine. Projectiles for rified ordnance. Tactics, military, apparatus for teaching.
Chief Color Harris Color Harris Color Montal Chief Concomment	Philadelphia, Pa. Philadelphia, Pa. Xenia, Ohio. Xenia, Ohio.	Washington, D. C. Plattsburg, N. Y.	Plattsburg, N. Y Eden, Vt. Stonebam, Mass.	Detroit, Mich Detroit, Mich Brooklyn. Pa Concord, III. Mathorville, Minn. Washington, D. C. End Township, Pa. South Norwalk, Conn. Newton, Mass.	Manchester, N. H. Trenton, N. J.	Trenton, N. J. Rockford, Ill. Rockford, Ill.	Seville, Obio New York, N. Y Brooklyn, N. T
Talvaria, O. L. mod Note of Gulb I facilitation, December Jamas P. Herrori France, Johannell, Jamas P. Herrori France, Johannell, and Edward Ketter	Eillin, Leopold. (See Politovin, Alphoneo L., ne-igner) Eikenberry. Lewis Eikenberry. Lewis Eikenberry. Lewis Eikenberry. Acwignort ob immedfend william and Allison Eiken, John, andgroort ob immedfend William Allison Eiker, John, Okse Young, Thomas J., assignor.)	111	Elliot, W. H., and John W. Moore. (See Moore & Elliot.) Elliot, William II Elliot, King II. Ellis, G. W., and C. W. Glidden.	M. and Jonas B. H. and C. Hurst K. (See Isbell, Charles W., assignor.) (See Ulmer, Philip, assignor.) (See Ulmer, Philip, assignor.) (See Ulmer, Philip, assignor.) (See Ulmer, Philip, assignor.) (See Ulmer, Philip, R. Thomas, (See Thomas	Emerson, J. E. and W. R. Thomas. (See Thomas & Emanuel.) Emerson, Junes, assignor to William P. Hunt. Emerson, J. E. Emerson, Jones E., and James C. Stock. (See Stock &		Emerson, Jr. 18. (See Martino, Charles F., assignor.) Emerson, Sum'l R., and Jno. Dean. (See Dean & Emerson.) Emerson, Simeon F. Emery, A. H. H. Emery, M. H. C., and D. B. Neal. (See Neal & Emery.) Engle, William S.
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List of patentees of inventions, designs, and reissues, 1862.

Date.	May 20, 1862. June 17, 1862. June 17, 1862. Die: 25, 1862. Die: 25, 1862. July 22, 1862. July 22, 1862. July 22, 1862. Aug. 12, 1862.	Aug. 19, 1962, Doc. 2, 1962, Doc. 9, 1962, Doc. 9, 1962, Doc. 9, 1962, April 1, 1962, Doc. 16, 1962, July 2, 1962, June 10, 1962, June 10, 1962, Aug. 1962, Aug. 1962, Aug. 1962, Aug. 1962, Aug. 1962, Aug. 1962, Aug. 1962, Aug. 1962	Feb. 11, 1862. Mar. 18, 1862. Mar. 18, 1863. June 10, 1863. June 17, 1863. Aug. 71, 1863. Aug. 71, 1863.
Invention or discovery.	Photographic apparatus Mills, funning Bayoner grand-removable Bayoner grand-removable Bayoner grand-removable Bayoner grand-removable Bayoner grand-removable Barrich generes, vessel for Tobucco pipes Barrich of beer and other liquids, apparatus for giving vent to.	Washing muchine. Straps, shoulder, for officers. Straming oysters, apparatus for Fruit-gatherers. Boilors, steam Trade-mark Knitting machines Turning irregular forms, machines for Wheels, fellors of, mode of connecting Wringing machines Knife handles	Weighing apparatus Scales, platform Scales, platform Shingle muchines Sugar, maple, sap bucket for the manufacture of Drush Brubber, hard, compound Drush Weissier, plass
Residence.	Hardand, Vt. Millburn, N. Y. Lansingburg, N. Y. York, Pa. New York, N. Y. New York, N. Y. New York, N. Y. New York, N. Y. New York, N. Y.	Fayetteville, Pa. Norway, Me. Norway, Me. Palitaleiphia, Pa. Batimore, Md. Hazleton, Pu. Philadelphia Pa. Holderness, M. H. Elizabeth City, N. J. Belizabeth City, N. J. Dedham, Mass.	St. Johnsbury, Vt. St. Johnsbury, Vt. St. Johnsbury, Vt. Cleveland, Ohio. Highgate, Vt. New York, N. Y. Tottenham, England
Name.	English, Bennett, Levijanin, assigna English, J. W. (38 English, M. F. Chaign, Liward III, Ensign, William F. Ensign, William F. Ensign, William F. Ensign, Otto Ensign, Otto Ensign, Otto Ennet, Otto	Ett.: Somethand in the B. Nemmen Evans, George F. Evans, Gorge F. Evans, Joseph F. Evans, Joseph F. Evans, Joseph F. Evans, Valliam B. Evans, William B. Evans, William B. Evans, William B. Evaluad, Joseph F. Evaluad, Joseph F. Evaluad, Joseph F. Evaluad, Joseph F. Evaluad, Joseph F. Evaluad, Joseph F. Evaluad, Joseph F. Evaluad, Joseph F. Evaluad, Joseph F. Evaluad, Joseph F. Evaluad, Joseph F. Evaluad, Joseph F. Evaluad, Joseph F. Evaluad, J. and A. W. Brinkerhoff & See Brinkerhoff & Evaluad.	Full-banks, Thoughtus Full-banks, Thoughtus Full-banks, Thoughtus Full-banks, Thoughtus Full-banks, Thoughtus Full-banks, Thoughtus Full-banks, Thoughtus Full-banks, Thoughtus M. Heren, and A. J. Whiting Full-banks, Thoughtus Full-banks, Thou
No.	8	ាត់ក្នុង ក្រុម ខែក្រុម ខេត្ត	GOOGIC. 6688 888 888 8488 888 888

June 1, 1992, July 1, 1992, Feb. 16, 1992, Feb. 25, 1992, April 29, 1909,	Nov. 18, 1862. April 22, 1862. April 22, 1862. Aug. 12, 1862. Feb. 11, 1862.	Sept. 2, 1862. June 17, 1862. July 22, 1862.	April 1, 1962 Aug. 5, 1962 July 29, 1962 Dec. 23, 1962 June 3, 1962 June 10, 1962	Mar. 25, 1862 Feb. 4, 1862 Nov. 18, 1882 Dec. 2, 1862 Mar. 25, 1862 Feb. 11, 1862 Jun. 17, 1863 Jun. 14, 1863	May 13, 1862. Aug. 19, 1462. Mar. 18, 1862. Jan. 7, 1862. Mar. 18, 1862. Aug. 12, 1862.	Mar. 11, 1962. Jan. 14, 1962. Aug. 5, 1962. Sept. 9, 1862. Mar. 4, 1962.
Needles into jugar, we have a for seleking. Vegatable and resecutabilities? for seleking. Tires, apparatus for besiding. Window-vegator	Locks springs Wagen springs Velucion wheel Jack litting Hay knives	Hats, swents for	Separators, grain Boos and shoes, "coasting guard" for Churus Seeding machines Cooking apparatus	Seeding machines Sugar, cube, apparatus for manufacturing. (Reissue). Sweng machines Demographic instruments Pipes, cast-fron, flasks for Marble, initiation Sewing, guides for creasing tucks and plaits preparatory to Lamp chinneys, attachment to Lamp chinneys. Skirts, skeleton.	Weather strips Weather strips Gaa-me, prakeryo Gaa-me, dry Lamp, vapor Washbogard, direllar	Can, fruit Carding machines. Wood, machinery for bending Treuting night soil
I thintelling To. Continue Nucl. Marrion, Pa. Lewiston, Mo.	New York, N. Y. Boston, Mass. New York, N. Y. Rowsburg, Ohlo West Salem, Ohlo	Boston, Mass. Fall River, Mass. Soneca Falls, N. Y.	Granville, Wis Danbury, Conn Decorah, Iowa Camden, N.J Sheboygan Falls, Wis	Dayton, Ohlo. Brooklyn, N. Y. New York, N. Y. Buffalo, N. Y. Phillipsburg, Pa. New York, N. Y. Newark, N. J. Newark, N. J. Newark, N. J.	Millville, N. Y. Newburg, Pa. Salem, Mass. Milwaukie, Wis Camden, N. J.	Morristown, Ind Cavendish, Vt Fkebburg, Mass Philadelphin, Pa
Future (1997) Fu	Farrell, Joseph O., assignor to himself and William Venzey. Farrell, Joseph O., assignor to himself and William Venzey. Farrell, Joseph O. Fasig, Dantel Fasig, Dantel Fasig, J. Fasigh A. Fasigh O.	Fuy, Benjamin W. Fuy, Lyman Feezler, Stephen M., assignor to himself, Van R. Stuck,	Peising, Jance. Bounds. Peising, Janes. assignor to himself and James S. Taylor. Ferran, A. C., assignor to himself and R. Clark. Frirth, Thos. T., assignor to limself and Ball. L. Woolston. Firster, John U. Frirster, John U. Frirster, John U.	Thomas W. Henderson Illiam Lisam r to himself and Adolph Opper and	rio J. B. Reed	Frich, O. P. Frich, O. P. Frich, O. P. Frich, James Frick, Robert, Jr Frick, Robert, Jr Frick, R. B. Frick, R. B. Frick, R. B.
######################################	98,948,948,948,948,948,948,948,948,948,9	36, 344 35, 597 37, 973	48,8,8,8,8,8 81,8,8,8,8,8 12,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8	4.8848448.4 4.8868448.4 5.886848.4	Digitized by	2000 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8

List of patentees of inventions, designs, and reissues, 1862.

Date.	Dec. 16, 1862. July 1, 1862. May 13, 1862. May 13, 1862. July 14, 1863. July 22, 1862. July 22, 1862. July 27, 1862. July 27, 1862. July 27, 1862. July 27, 1862.	June 3, 1862. May 6, 1862. June 10, 1862.	Dec. 16, 1862. Dec. 25, 1862. July 22, 1862. July 22, 1862. Mar. 18, 1862. May 6, 1862. May 13, 1862. May 13, 1862. July 21, 1
Invention or discovery.	Hydraulie cylinders Pegfing-machines Sun-dialis Sun-dialis Sun-dialis Sun-dialis Sun-dialis Sun-dialis Crinoline clips Roots, machine for cutting. Iron and steel, manufacture of Ironesis, patering Paper, wall, machine for trimming Safes, burglar-proof Fire-indder apparatus	Sewing-machine frame (Design.) Ju Plongh-beam Mindow-sash Ju	Threshing and hulling clover-seed, machines for Dec. Looms. Secharize juters, evaporating pans for Feb. Type movable, to cylindrical surfaces, attaching. Type movable, to cylindrical surfaces, attaching. Type movable, to cylindrical surfaces, attaching. Type movable, to cylindrical surfaces, attaching. Type movable, to cylindrical surfaces, attaching. Type movable monider combined. Type movable monider combined. Type loom monitors in the movable mo
Residence.	New York, N. Y Salem, Mass. Paliadelphi, Pa. Paris, France. Colony, Ia. London, England Eden, Vt. Rediester, N. Y Rediester, N. Y Rediester, N. Y Rochester, N. Y New York, N. Y Boston, Mass.	Winchendon, Mass Stillwater, N. Y. New York, N. Y.	Downgiae, Mich Lowell, Mass Lowell, Mass Pitchurg, Pass Fitchurg, Mass Briez, Ohio Trevorton, Pa. Gran Trevorton, Pa. Afton, N. Y Afton, N. Y Peorif, Ill. Werlifen, Conn Richmont Volley, N. Y Worsester, Mass N. Worsester, Mass N. Worsester, M. N. Dower, N. H Dower, N. H Dower, N. H
Мате.	ERRETHE HERRER	Design.) Design.) Design.) Design.) Design.) Folsom. Abraham, & Son. (See Foyer, David, nesignor. Folsom. J. G., and B. D. Whitney, assignors to J. G. Folsom. Ford. Frederick G. Ford. Frederick G. Forythe, Samuel, and J. R. Williamson. (See Williamson & Forythe.) Forythe. Sunuel, and J. R. Williamson. (See Williamson & Forythe.)	and Semuel F. Gold. (See Gold & Fockert.) and Semuel F. Gold. (See Gold & Fockert.) assignor to self and Robert Wallace A A A A A A A A A A A A A
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Dec. 16, 1462. June 10, 1462. May 6, 1463. June 28, 1863.	July 29, 1802. Jun. 21, 1862. Aug. 12, 1862. Sept. 23, 1862. Mar. 25, 1862. April 15, 1862.	June 8, 1862.	Sopt. 30, 1862. May 6, 1862. Feb. 25, 1862. April 15, 1862. July 8, 1862. May 27, 1862.	June 17, 1862. Dec. 16, 1862. June 24, 1862. Oct. 14, 1862. Sept. 9, 1862. June 17, 1862.	Aug. 26, 1862. June 24, 1862. April 19, 1862. May 13, 1862. April 5, 1862. April 8, 1862. April 8, 1862.
Photo chells, &c., patiens of (Design). Corporation for making printeer inking rollers Match-box, pooksis	Ordonose, revolving Gauge, finishle, for tomperature Headers to follers, vedsanizing Toelh to artificial base, securing Balcouse, spring. Pistons, packing for. Valves for steam-engines	Piston packing	Partenings for chamber doors Buckles, rings, &c. Raferwhele, rings, &c. Sewing-diread spool-holders, portable Sewing-diread spool-holders, portable Platteans, crevi Ving Platteans, corn Water-elevators On springs, spiral, corregated	Plough and gun, combined Bedstead Bedstead Bedstead and by Bed dropping device, hand Saddlea, riding Shuttlea, weavery	Aug. 26, 1862.
Dover, N. H. Y. Circuibush, N. Y. N.	Now York, N. Y. Now York, N. Y. Now York, N. Y. Now York, N. Y. Appleon, Will Chicago, III.	Chloago, III.	Now York, N. Y Spraeuse, N. Y Columbia, Cal Bingkampton, N. Y Hanover, Ohio Pittsfield, Ill Seymour, Com	Waterloo, N. Y. East Cambridge, Mass Boston, Mass Buckeye, Ohlo Stuttgardt, Gernamy Rockville, Conn	Brooklyn, N. Y. Harburgh, Hanover Peekkill, N. Y. Foekakill, N. Y. Georgetown, D. G. New Britain, Conn. Cincinnatt, Ohlo.
Front During management of Airmhann Pragotts & Scott Principle, gaville main N. W. Lettinde Principle, frames, frames IV. Principle, frames, f		Fracer, D. R., et el. (See Hedges, Wheeler, assignor. Relieur, David R., et el. (See Hedges, Wheeler, assignor. Fracer, David R., et el. (See Hedges, Wheeler, assignor. Relieure.) Fracer, David R., et el. (See Hedges, Wheeler, assignor. Relieure.) Fracer, David R., et el. (See Hedges, Wheeler, assignor. Relieure.)	Fraser, D. E., et el. (See Gatos, P. W., ansignor.) Fraser, John F. Fraser, Kasson Fredenbart, J. G., and J. L. George Freeman, A. T. Freeman, A. H. French, A. H. French, A. H. French, Carlot, Chas. M., and A. McKissick. (See McKissick &	E. (See Clarke & Franch.) or to hunself and Sidney Allen and Crawford. (See Crawford.)	
1, CON 1,	82312222 4482444 H. Ex.	ਲੋ ਲੇ Dac 624	88 88 88 88 88 88 88 88 88 88 88 88 88	8. 13. 13. 13. 13. 13. 13. 13. 13. 13. 13	중문왕국왕왕왕 중. 왕왕국왕왕국국 후 Digitized by (100년)

List of patentees of inventions, designs, and reissues, 1862.

Name. Fryatt, Horatio N Fuller, Albert	5	Residence. Belleville, N. J. Cincinnati, Ohio	Invention or discovery. Filtering liquids, centrifugal machine for	Date. June 3, 1862. Feb. 18, 1862.
Fuller, Lather N. (See Barber, Ira S., assignor.) Fuller, Warren & Co. (See Hathaway, David, assignor.) Fuller, Warren & Co. (See Hathaway, David, assignor.) Fullon, William Fulton, William Fulton, William Fulton, William	司司百	Elizabeth Clfy, N. J. Filizabeth Clfy, N. J. Filizabeth Clfy, N. J.	Cooking apparatus Lamp chimneys, statemer for	Feb. 4,
	CHAC	Cranberry, N. J. Elizabeth, N. J. Grewark, Ohio	Burners, coal-oil Cooking apparatus Coiking apparatus Coiking apparatus Coiking aloes, evaporator for	May 27, 1862 Dec. 9, 1862 April 29, 1862 Nov. 18, 1862
Furnes, Willard H Furst, Courad, David Bradley, and John Lacoy Gabel, Nolson, and O. L. Edwards. (See Edwards & Gabel) Gage, Campbell & Gage. (See Kavanaugh, Luke, ass'r.)	O C M	Quincy, III Chicago, III Richmond, Ind	of funitate. ombined	Jan. 21, April 15, April 29,
	XAA	New York, N. Y Dowagiac, Mich Dowagiac, Mich	utilizing the products of the.	Oct. 7, 1862. April 15, 1862. Aug. 26, 1862.
Gallacher, John McAuley Gallacher, John McAuley Gallacher, John McAuley Gallacher, John McAuley Gallacher, John McKarley Gallacher, John Nasignort ob himself, Christopher Dorfilinger, Avent Traden and Article Research	¥×ŏ¤	Kendall, III Roxbury, Mass Genova, N. Y. Brooklyn, N. Y	Fences, portable Pertilizing composition Water-wheels Lamps, lighting and trimming	Nov. 25, 1862. April 1, 1862. Sept. 23, 1862. June 24, 1862.
	M S M	Katonat, N. Y. Scranton, Pa. Wilkabarro, Pa.	Pegging boots and shoes, machine for Tenoning machines, hand Tenoning machines, hand	Aug. 26, 1862. Mar. 18, 1863. July 15, 1862.
Ganster George P. Garber, Perdhand and Sylvanus Shimor Garden, Remnin Garden, Daniel S, and N. A. Manning Garden, Francis Garden, Francis Rocarden, G. H., and L. O. Colvin, (See Colvin & Garden, Perdhan J. Colvin Carden, Perdh	A POPULA	New York, N. Y Terre Hauto, Ind New York, N. Y Greene, N. Y Vorb De	Ordnance, breech-loading. Strapers, dirt. Chura. Presses for compressing and baling. Cauteen.	Sept. 9, 1862. July 22, 1862. Dec. 23, 1862. Mar. 25, 1863. Nov. 4, 1863.
A. B. Howe.	A P S S S S S S S S S S S S S S S S S S	Shelburne Falls, Mass Mutington Co., Ind. New York, N. Y. New York, N. Y. Fellactiphia, Fa. Adamavilie, Ind.	Cutlery, attaching handles to. Cutlery, attaching handles to. Mill, stone-dressing. Rice cleaning. Rice cleaning. Rich stone in the stone in th	

85 95 113 95	211 Gurrer, G. O. and Annon P. Gurren, G. O. and G. T. Denrall. (See Poursail & Gur- Floor)	Juckeon Township Is. Josef Suginaw, Mich.	Bult, apparatus for the manifecture of	Mar. 13, 1563. Aug. 10, 1663.
94, 24, 26, 26, 26, 26, 26, 26, 26, 26, 26, 26	Ogarty Seminol P. Common Seminol P. Common Seminol P. Common Seminol P. Common Seminol P. Common Seminol P. Common Seminol P. Common Seminol P. Common Seminol	Anhland, N. Y. Anhland, N. Wis Wyanet, Ill.	Position and direction on land and see, assortaining. Cealityators	Feb. 4, 1862. Dec. 16, 1862. Oct. 7, 1862.
36, 881	Gates, P. W., et al. (See Hodges, Wheeler, ans'or. Reissue.) Gates, P. W., et al. (See Hodges, Wheeler, ans'or. Reissue.) Gates, P. W., assignor to self, Thomas Chalmers & D. R. Freen	Chicago, Ill	Saccharine liquids, ovsporating pans for	Nov. 4, 1862.
36, 943 36, 402 36, 836	Wichard J.	Chicago, III. Indianapolis, Ind. Indianapolis, Ind.	Saccharine liquids, apparatus for evaporating	Nov. 18, 1862. Sept. 9, 1862. Nov. 4, 1862.
88.4% 45.4% 57.5%	chant, John Case Orpen, Charles N., mangnor, Chant, John Casignor to self and W. V. Barkulow Cault, John Casignor to self and W. V. Barkulow Caple d. Edwin S Caylo d. Edwin S Case Stowell, Charles, assignor, Gedder, Alex, and J. W. and Wm. Montzel. (See Montzel.	Boston, Mass Boston, Mass Boston, Mass Hartford, Conn	Shot, chain, for ordnance. Shot, chain. Postage-stamp case(Design.) Lamps, mica chimneys for	Mar. 11, 1862, June 24, 1862, Aug. 12, 1862, June 24, 1862,
85,838 82,838 815		New York, N. Y. New York, N. Y. Belleville, III.	Fire-arms, revolving . Soda-water apparatus . Harvesters.	July 99, 1862. April 1, 1862. July 8, 1862.
88.88 88.88 88.88 88.88	Geness, Jacob, et al. (See Frein, Gelas & Brontan, Geness, Jacob, et al., Ges Frein, George W. Howard Gentli, Constant Genuing, McPrin A. George, J. L., and J. G. Fredenburr. (See Fredenburt &	Farrentum, Pa. New York, N. Y. Granville, Ohio.	Method of storing oll. Bed spring. Bell, door and burglar slarm.	Feb. 18, 1962. Nov. 11, 1962. June 17, 1962.
34,886	George, Robert W	Richmond, Me	Washing machine	April 8, 1862.
36, 212	General, W. C. Cos Scott, Luwer L., Issugator. J General Louis Gibb, W. W., and H. J. Bell. Gibb, Poulon T. and Edwid Leals. Cos Tooling Citibal	Philadelphia, PaCarliale, Pa.	Pantographic reversing instrument. Clothes wringer	Aug. 19, 1962. April 1, 1863.
1,656 1,657 34,831	Globa, Santal W. Globay, F. H. Globan, A. J. Globan, A. J. Globan, Rederick M., and Benj Merritt. (See Merritt &	Albany, N. Y. New York, N. Y. Worcester, Mass.	Stoves, plates of	Sept. 23, 1862. Sept. 23, 1862. April 1, 1862.
35, 515 35, 230	Gibson, Olikon, and Michael Heberger. Gibson, William Gibson, William Gifford, E. M. (See Sanborn, Jubal M., assignor.)	Cincinnati, OhioFort Wayne, Ind	Rydrants Fences	June 10, 1862. May 13, 1862.
24,68 1 110	difford, E. M., et al. (See Peck, Boyal H., assignor.) Gilbert, Daniel Gilbert, George W Gilbert, Juo. C., and Jas. P. Gage. (See Gage & Gilbert.)	Middlefleld, N. T. Bettaville, Ohio	Vehicles, wheel Mar. 18, 1862.	Mar. 18, 1862. Jan. 7, 1862.

List of patentees of inventions, designs, and reissues, 1862.

Date.	Dec. 23, 1862. Oct. 14, 1862. April 22, 1862. May 26, 1862.	. ප්.අ.දුර්වීමුම් <u>ම්</u>	Dec. 16, 1862. July 8, 1862. Feb. 4, 1862.	Oct. 21, 1862. April 1, 1862.	Apr	Feb. 11, 1862. Oct. 21, 1862.	Mar. 18, 1862. Sept. 23, 1862. Oct. 14, 1862. July 8, 1862. June 17, 1862.	July 29, 1863. Feb. 25, 1963. Jan. 7, 1863. Oct. 28, 1862. July 29, 1862. Dec. 2, 1863. April 15, 1863.
Invention or discovery.	Hats, apparatus for pressing. Gates, devices for closing. Bedsteads, folding. Verbiles matchine for packing.	Washing machine Clethes-wringer Aydraulic governor Axies-wasign Harness tags, clasps for Mill-strone, machine for trimming, staffing and fine dross	ing of. Lock for mall-bag Baws, scroll Budding knife	Brick machines Cab, brakeman's.	Seeding machines		Boots and shoes, India-rubber Fire in the hold of ships, vessels, &c., extinguishing. Sump extractors Kettles, tea. Stoves	Heating apparatus, steam Counton by attached fuses, firing Trains or fuses, construction of Bresia mislions, chean that table for Bresia mislions, chean that table for some fuses, for another for some fuses, for another for some force of the force of t
Reidence.	New York, N. Y. Syracus, N. Y. Dedhan, Mass. Ogdon, N. Y.	Alton, III Alton, III Trevino, IV J Viroquo, Wis Tecumsch, Mich Washington, D. C.	Mexico, Pa. New York, N. Y. Cedar Lake, N. Y.	Allegheny City, Pa. Chicago, III.	Madhon, Wis	Fitsburg, Pa. Jamaica Plains, Mass	Milford, Mass Brooklyn, N. Y Grand Rapids, Mich Albany, M. Y Brooklyn, N. Y	Brooklyn, N. Y. Bouth Weymonth, Mass. New York, N. Y. New York, N. Y. Goodland, Ind. Providence, R. I. Massoda, Wis. New Pirrunwios, N. J.
Name.	Giles, John S., Wm. Halladay, and Jno. A. Rue, assignors to Jno. S. Olles and Wm. Halladay. Glifthan, William. Glifthan, William. Glifthan, Cont. G. B. assignor to Ematus Tarbox.	Gill J. M. H., and Wm. Bowan. (See Rowan & Gill.) Gill, Jos. R., and Wm. E. Palmer. Gill, Jos. R., W. E. Palmer, and W. W. Webb. Gillespie, James E. Gillespie, James E. Gillesman, James S. Gilleman, James S. Gilleman, James S. Gillenan, James S. Gillenan, James S.	Gingrich, Wm. W., and C. S. Coats Girnudat, A Gird, Edward D., and R. Gird, assignors to themselves and	Glesinger, Samuel. Glesinger, Samuel. Glagow, Honry C. Glagow, Elliott P. (See Green, Jerome B., sasignor.) Glidden, C. W., and G. W. Ellis. (See Ellie & Glidden, C.)	Glimsdal, Martin T. Glossbrenner, Adam	Glyde, Richard C. Goar, John C. Godfrey, B. D. (See		Gold, Santol F., and Wm. A. Foakett Gold, Santol F., and Wm. A. Foakett Goldtwatt, Charles Gonnex, Edwin. Goronex, Edwin. Goronex, Bergianin. Goronex, Bergianin. Gondern, Tromas, and Charles Jackson. Goodwin, Gurels.
No.	37, 255 36, 647 35, 018 35, 199	444,88,84,89 800,836,84,86 800,848,84,86 800,84,84,84,84	37, 164 35, 817 34, 32	36, 706 34, 839	34,830	8,43 13,55 14,55	35, 682 35, 648 35, 648 35, 648 35, 658	84448 84448 86448 86448 86448 8648 8648

April 8, 1662.	Jan. 21, 1863, May 8, 1863, April 18, 1863, May 13, 1869	Jan. 14, 180g.	July 22, 1862. May 20, 1862.	Aug. 25, 1862. Oct. 7, 1862. Mar. 25, 1862. Jan. 7, 1862.	Nov. 4, 1902. Nov. 4, 1802. May 27, 1862. Oct. 28, 1862.	ଞ୍ଞଞ୍	Sept. 16, 1863. April 29, 1863.	Jan. 14, 1863. Sept. 2, 1863. Sept. 9, 1863. Jan. 28, 1862. Mar. 11, 1863. Aug. 26, 1863.	Jan. 15, 1862. July 1, 1862. Mar. 11, 1862. June 24, 1862. Sept. 9, 1862.	June 24, 1863. Oct. 21, 1863. Oct. 21, 1862. Oct. 21, 1862.
Traps, Oah	Chair, arm, folding Ordinare, breech, loading Rubber, liudia, making hollow articles of. (Extension.). Costors from vulcanizable compounds, manufacture of.		Hooks, snap				Extension.) Presses, drop. Faucets.	Looms, power Harrows Harrows Rollis, cond. condenser for Roding composition for rallroad cars, &c. Car coupling		Pumps Pumps Pumps Pumps Watch-chain guards or keys
	Ilamden, Conn. Powlatan, Oblo. New Haven, Conn. New York, N. Y.	New Ивчеп, Conn	New York, N. T. Elkton, Md.	Elkton, Md Rochester, N. Y Taunton, Mass Brocklyn, N. Y	Brooklyn, N. Y. Caledonia, N. Y. S. Johnbary, Vt.	Lockport, N. Y. Skow began, Mo. Worcester, Mass	Providence, R. I. San Francisco, Cal	Clinton, Mass. Augusta, Ky. Chickendh, N. Y. Chicken, III. Lewishur, Pa.	Rochester, N. Y. Middletown, Vt. Belleville, III. Wayland, N. Y. New York, N. Y.	Utica, N. Y. Utica, N. Y. Summit, Iown Copenhagen, Dennark
Goodwin, Pormin Bunnel S. Campboll. (See Campbell Askarin, N. J. Goodwin, Joseph and Sumnel St. Campboll.	& Contwin.) Goodwin, William C Goodwen, William E Goodwen, William E Goodwen, Charles, fr., deceased, by Chas, Goodwer, Jr., ex'r. Goodwen, Charles, Jr., 68ce Silverthorn, Nowman, assignor.	Reisaue.) Goodyser, Henry B. Goodyser, India Rubber Bottle Stoppie Co. (See Amer,	Nathan, assignor.) Goodyser, Robert B., assignor to James A. Bowie and Goodyser, Robert B., assignor to James A. Bowie and			Gould, Eilean D. Gould, William W. Goulding, John	Goulding, William F., and Frank Cheney. Gove, Andrew J and J. Luccock. (Se Luccock & Gowdy.) Graham, F., and Ralph Emerson, Jr. (See Emerson & Graham.) Graham, F., and Ralph Emerson, Jr. (See Emerson & Graham.)	1 C. Hoffman to himself and James S. Suyder nd A. J. Cutter		cror to binself and B. T. Latham
34, 1547	8,89 116 18	34, 140	35, 331 1, 310	88. 127. 117.	8888 8828	848 35	36, 450 35, 094	¥88¥¥8 ¥85888	###### ######	28888 6555

List of patentees of inventions, designs, and reissues, 1862.

Date.	Mar. 11, 1862. Mar. 11, 1862. Mar. 11, 1862. April 29, 1862. Aug. 5, 1863. Feb. 18, 1862.	July 8, 1862, July 8, 1862, July 18, 1862, Sept. 2, 1862, Mar. 18, 1862,	Mar. 4, 1962.	Oct. 7, 1862, July 22, 1862.	Jan. 28, 1862. Feb. 4, 1862. Mar. 25, 1862. Aug. 5, 1862. Feb. 11, 1863.	May 13, Sept. 2,	May 20, 1862, May 20, 1862, Oct. 14, 1862,	July 22, 1862, July 22, 1863, May 20, 1863, Oct. 28, 1863, April 8, 1863.	June 10, 1869. Oct. 29, 1863. Jun. 29, 1863.
Invention or discovery.	Boots and shoes, metallic heels for Cultivators Line beloiders for masous' work Chandeliders for masous' work Chandeliders Lump bracket Free man, preech-loading Lamp chinuws, heater for	Public, water-proof, machino for manufacturing Babrica, water-proof, machino for manufacturing Heaters, sadiron Refrigerator Cork into skrips, machinery for cutting	Skates	Jars, fruit Ores, granding and amalgamating the prectous metals,	heat co	Venecis, navigable. Carriages, hold-back for	Photographic albums Hammors, forging Washing machine	Bridle, halter Can for preserving fruits, &c., Pens, metaltile Pens, metaltile Harvestorn Store	Abot contains or plosive
Residence.	Antwerp, N. Y. Honry, Ill. Rocky Ill., Conn. Meriden, Conn. Meriden, Conn. United States army Providence, R. I.	Warwick, B. I. Warwick, B. I. Albary, N. Y. Philadolphia, Pr., New York, N. Y.	Amsterdam, N. Y	New York, N. Y. Lynn, Mass.	Brooklyn, N. Y. East Cambridge, Mass. East Cambridge, Mass. Philadelplia, Ps.	Philadelphis, Ps. Dansville, N. Y.	Waterbury, Conn. Newark, N. J. Newark, N. J.	Logansport, Ind. Logansport, Ind. Brainfordge, N. Y. Brainfordge, N. Y. Troy, N. Y.	Troy, N. Y.
Name.	Green Heary Green, Jaso Jr., et et. (See Armstrong, F. W., assignor.) Green, Loonard A. Green, W. H., and P. J. Clark, assignors to B. S. Clark. Green, Wm. H., and P. J. Clark, assignors to B. S. Clark. Green, Wm. H., and P. J. Clark, Olegnon to B. S. Clark. Green, Appreh. Green, Appreh. Green, Appreh. Green, Appreh.	Greene, John F., assignor to Samuel Boyd Tobey Greene, John F., assignor to Samuel Boyd Tobey Greene, William A. Green William A. Green William A. Green Greene William A. Greene Greene William A. Greene Greene W. (See Soymour, Ellas W., sasignor.) Greeney George W., and Nelson Orcutt. (See Worthing,	John P., sesignor.) Gregory, Junes, Gee Sutton, John, sesignor.) Gregory, Willis L., assignor to self and Gardner Landon, Jr. Gregory, Wandli B. Laning, Gee Landing & Grenell.) Greinlan, F. C., Cherlier, Tomas O., sesimore?	Griffin, James F. Griffin, Caleb H., ausignor to Walter D. Richards	Griffin, Thomas J. Griffing, Augustua P. Griffing, Augustua P. Griffin, Pullipu Griffin, Pullipu Griffin, John W.	Griffiths, John W. Griffiths, Thomas, Tomas, Co. Holmas, C. F. L. assismon, J.	Grigs, Elizur D. Grimshaw, William D. sasignor to himself and Conrad A.	Griswold George W Griswold, George W Griswold, Richard, Richard, Richard, Richard, Richard, Richard, Richard, Richard, Jacob Shavor, and Lewis	Potter, Green, Smith Sales to bimack and Jacob Shavor.
No.	5,4, 4,1,4,8 16,8,9,1,4,8,8 16,8,1,4,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8	8.88.84.4 8.88.84.4 8.88.84.4 8.88.84.4	34, CB 1	36, 612 35, 980	88 188	88 82	8,85 8,93 19,9 19,9	88.88.88.98 88.88.98.98 88.88.98.98 88.88.98.98	35, 574

Aug. 19, 1893. Jun. 24, 1863. Jun. 24, 1863. May. 4, 1863. May. 7, 1863. May. 77, 1863. May. 77, 1863. May. 77, 1863. May. 77, 1863. May. 77, 1863. May. 77, 1863. May. 77, 1863. May. 77, 1863.	Sept. 16, 1862. June 17, 1862.	Dec. 2, 1862. Mar. 18, 1862. Mar. 18, 1863. Oct. 21, 1862. Mar. 11, 1862. April 1, 1862.	Nov. 11, 1862. July 1, 1862. Dec. 9, 1862. Sept. 9, 1862. Oct. 7, 1862. Aug. 12, 1862.	Nov. 18, 1862. Oct. 7, 1862. Jan. 14, 1862. Feb. 4, 1862. Dec. 16, 1862.	Feb. 18, 1962 July 29, 1962 July 29, 1962 June 10, 1962 April 29, 1862 July 8, 1962 Oct. 14, 1962
Churus Wissing machine Wissing machine Graving machine moodles Sowing machine moodles Sowing machines Sowing machines Sowing machines Pontoon, ivon Pontoon, ivon Wach setspounted Wach setspounted Wach setspounted	Washing machine, rollers for Pumps, rotary	Bec-hives Stoves Stoves Stoves Fire-armal, breech-loading Gas-water, apparatus for making Water-wheel Water-wheel	Taps, reamers, &c., guide attachments for Browing when Indian corn is used Coller, artificial Composition substitute for horn, hard rubber, &c. Buckets and measures Skates, ankle support for	Grates for coal stoves and furnaces Feed-water heating apparatus Wringing machines, rollers for Mills, faming Laming Lamps, coal-oil	Pictures, cards, &c., metallic cases for Fighwi pins, and shaping plough-shares, reaction Sofn, convertible into a table, trunk, cot, &c. Ordnance, breech-loading Plough-shares Forging, bending, and shaping plough-shares, machine for
Greten, N. Y. Oblo Digde Village. Digde Village. Marphan. Holyote, Mass. Borlon Mass. West Rockery, Mass. Galesburg, Ill. Berlin, Prusia. Contrastally, N. Y. Contrastally, N. Y.	Dedham, Mass	Oskaloosa, Iowa Waloott, Vt. Waloott, Vt. Hamilton, Ohio Brooklyn, N. Y. Beenville, Ps.	Norwalk, Ohio Altenburgh, Hungary Dobb & Ferry N. Y New York, N. Y Williamsburg, Ohio Buffalo, N. Y	Albany, N. Y. Boston, Mass. South Dedham, Mass. South Dollam, Mass. Brosklip, N. Y.	Highgate, Vt Philadelphia, Pa Danby, Vt Granville, Ohio Gincinnati, Ohio Pittaburg, Pa Pittaburg, Pa
Grover, Pounes I., and Grover, Munaconi, of Grover, Munaconi, of Grover, William O. Grover, William O. Grover, William O. Grover, Rulph Grover, Italian Grover, Italia	Gulld, Lewis, assignor t Gulld, William H	Guntorman, Simon. (See Vogt. David, saugnor.) Gunt, M. and C. L. Cain. Guyer, Earl. Gwyr, Earl and A. C. Campbell. Gwyns, W. H. Gwynne, W. H. Haag, Joel, and J. C. Smith.	Hadley, William Swain Hackler, Ludwig Hackler, Ludwig Hackler, Ludwig Hackler, Shotettie Hackler, Robert Hackler, Bance Hackler, Robert Hackler, Robert Hagenan, James Haght, Moses C Haght, Was, and John G. Treadwell &	Halles.) Hais, William Hair, J. J. (See Briggs, John, assignor.) Haie, Joseph P. (See Tracy, Dwight, assignor.) Haie, Robert W Haley, John J Hall, Salman, and Juo, Faulkner Hall, Asham, and Juo, Faulkner William A. Kichali and Theodope, Seess	Hall, Edward. (See Davis, Job C., assignor.) Ital., E.J., assignor to himself and C. P. Stimets, assignors to C. P. Stimets. Hall, H. J. Hall, T. Hall, and H. Hall, fr. Hall, Henry M. Hall, Henry M. Hall, John C. Hall, John C. Hall, John S. and J. M. Connel. (See Connel & Hall, John S. Hall, John S. Hall, John S. Hall, John S. Hall, John S. Hall, John S. Hall, John S. Hall, John S. Hall, John S.
84.25.25.25.25.25.25.25.25.25.25.25.25.25.	8 8 8 8 8	2444444 25255	86,406 96,406 96,406 1406 1406 140	36,950 36,614 34,143 37,270 37,197	86884 8888 86884 8888 86884 8888

List of patentees of inventions, designs, and reissues, 1862.

Date.	Mar. 11, 1869. Mar. 11, 1869. Mar. 11, 1869. Mar. 11, 1869. April 29, 1869. Sept. 30, 1862. July 8, 1869. July 8, 1869. July 8, 1869. Sept. 2, 1869. Mar. 16, 1869.	Mar. 4, 1862,	Oct. 7, 1862. July 22, 1862.	Jan. 28, 1863, Feb. 4, 1863, Mar. 25, 1863, Aug. 5, 1863, Feb. 11, 1862, May 13, 1862, Sept. 2, 1863,	May 20, 1869, May 20, 1862, Oct. 14, 1862,	July 22, 1862, July 22, 1862, May 20, 1863, Out, 20, 1863, Juno 10, 1863, Out, 22, 1863, April 6, 1863, April 6, 1863, April 1, 1863,
Invention or discovery,	Boots and shoes, metallic heels for Cultivators Line-holders for masons work Chandeler Lamp bracket Fire-arm, breech-loading Fire-arm, breech-loading Fire-arm, breech-loading Fire-arm, branch-form for Fire-arm, branch-form channers, branch-form form form form form form form form	Skates	and amalgamating the precious metals,		Photographic albums. Hammors, forging. Washing machine.	
Residence.	Antwerp, N. Y. Henry, Ill. Bocky Illil, Conn. Meriden, Conn. United States army Providen, R. I. Warwick, R. I. Warwick, R. I. Albany, N. Y. Philadolphia, Pn. New York, N. Y.	Amsterdam, N. Y	New York, N. Y. Lyun, Mass	Brooklyn, N. Y. East Cambridge, Mass. East Cambridge, Mass. Philadelphia, Pa. Brooklyn, N. Y. Philadelphia, Pa. Danswille, N. Y.	Waterbury, Conn. Newark, N. J. Newark, N. J.	Logansport, Ind. Logansport, Ind. Rainblidge, N. Y Sharfenslow, Pa. Troy, N. Y Troy, N. Y Troy, N. Y Troy, N. Y Troy, N. Y Troy, N. W N. W. W N. W. W. W N. W. W. W. W N. W. W. W. W. W. W. W. W. W. W. W. W. W.
Name.	Green, Henry Green, Isano A. Green, Isano A. Green, J. S. J., et al. (See Armstrong, F. W., assignor.) Green, Leonard A. Green, W. L., and P. J. Clark, assignors to B. S. Clark, Green, W. D. L. Green, J. Durell. Green, J. Durell. Green, J. Durell. Green, John F., assignor to Sanuel Boyd Tobey Green, John F., assignor to Sanuel Boyd Tobey Green, John F., assignor to Sanuel Boyd Tobey Green, Millian Green, Millian A. Green, Millian A. Green, Millian A. Green, Green, Willian A. Green, Gre	Gregory, James. (See Sutton, John, sssignor.) Gregory, Willis L., assignor to self and Gardner Landon, jr. Grenell, H.W., and H. B. Lansing. (See Landing & Grenell.)	Gridley, F. C. (See Clay, James O., assignor.) Griffin, James F. Griffin, Caleb H., assignor to Walter D. Richards	Griffin, Thomas J. Griffing, Augustus P. Griffing, Augustus P. Griffing, Augustus P. Griffing, Philip. Griffiths, John W. Griffiths, John W. Griffiths, Thomas P.	Griggs, Lizzu D. (See nounce, C. L., L., saseguor.) Grigshaw, William D. Grimshaw, William D., assignor to himself and Conrad A.	Criswold, George W Griswold, George W Griswold, George W Griswold, Stepard Grown, Statist, masignor to himself, Jacob Shavor, and Lewis Forter. Forter
No.	8.4 2.1.128888824 E6 E82648888824 E76 E88648888888	34, at 1	36, 012 35, 980	4444444 88888844 88888844	35, 310 36, 687	88888 88868 88968 8968 8068 80

Ang. 19, 1893 Jun. 27, 1893 Juno 10, 1892 May 7, 1892 May 77, 1892 May 77, 1893 Feb. 4, 1882 May 27, 1893 Feb. 4, 1882 May 27, 1893	Sept. 16, 1862. June 17, 1862.	Dec. 2, 1862. Mar. 18, 1863. Mar. 18, 1863. Oct. 21, 1862. Mar. 11, 1862. July 29, 1862. April 1, 1862.	Nov. 11, 1862. July 1, 1862. Dec. 9, 1862. Sept. 9, 1862. Oct. 7, 1862. Aug. 12, 1862.	Nov. 18, 1862. Oct. 7, 1862. Jan. 4, 1862. Feb. 25, 1862. Dec. 16, 1862.	Feb. 18, 1963 Feb. 25, 1863 July 29, 1863 April 22, 1863 July 8, 1862 July 8, 1862 Oct. 14, 1862
Churns Volughs Volughs Volughs Volughs Volughs Chargelator Gastregulsor Sowing machine needles Sowing machine of the Chargelator Sowing machine of Sowing machine of Charlege wheel, iron Carriage wheel, machine for making Watch escapements	Washing machine, rollers for	Bee-hives Stoves Stoves Fina-mills Fina-mills Gas-water, apparatus for making Water-whoel Water-whoel	Tapa, reamers, &c., guide attachments for Brewing when Indian corn is used. Cellar, striffeds. Composition substitute for horn, hard rubber, &c. Buckets and measures Skates, ankle support for	Grates for coal stoves and furnaces Peed-water heating apparatus Wringing machines, rollers for Wringing machines, rollers for Mills, faming Lamps, coal-oil	for k, cot, &c. hares, machine for.
Groten, N. Y. Oblo Olyde Village, Oblo Olyde Village, Newton, Mass. Beston, Mass. Beston, Mass. Galesburg, Ill Berlin, Prusia. Troy, N. Y. Cornwall, Vt.	Dedham, Mass Brooklyn, E. D., N.Y	Oskaloosa, Iowe. Waloott, Vt. Waloott, Vt. Hamilton, Oblo Brooklyn, N. Y. While Plann, N. Y.	Morwalk, Obio. Altenburgh, Hungary. Dobb's Ferry, N. Y. New York, N. Y. Williamsburg, Obio. Buffalo, N. Y.	Albany, N. Y. Boston, Mass South Dedham, Mass South Delham, Mass Broaklyn, N. Y.	Highgate, Vt Philadelphin, Pa Danby, Vt Granville, Ohlo Pittaburg, Pa Pittaburg, Pa
		Gunn, D. M., and C. L. Cain. Guyer, Earl Guyer, Earl Guyer, Earl Guyer, Earl Guyer, W. H. Gwynne, W. H. Haag, Joel, and J. C. Smith.	Hacker, Levi L. (See Witted, George L., assignor.) Hacker, Ludwig Hacffner, Valentino Hacffner, Valentino Hacffner, Robert Hagman, James Hagman, James Halles, Wim, and John G. Treadwoll (See Treadwoll &	Huiles.) Hailes William Hair, J. (See Briggs, John, assignor.) Hale, Joseph P. (See Tracy, Dwight, assignor.) Haley, John J. Haley, John J. Haley, John J. Hally, Ahman, and Jho. Faulkaer Hall, Ashman, and Jho. Faulkaer Hall, Assignor to himself, Vasconcellos Houghton,	Wulliam A. Wirtholt, and Theodotor C. Sears. Hall, Edward. (See Davis, Job C., assignor.) Hall, E. J., assignor to himself and C. P. Stimets, to C. P. Stimets. Hall, H. J. Hall, T. Hall, and H. Hall, jr. Hall, Henry M. T. Hall, and H. Granel Hall, John S., and J. M. Connel. (See Connel & Hall, John S., and J. M. Connel. (See Hall.) Hall, John S.
24.25.25.25.25.25.25.25.25.25.25.25.25.25.	8 8 8 8 8 8	2448484 8885888	86, 406 36, 406 36, 613 86, 149	36, 950 36, 614 34, 142 34, 488 37, 197	8 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8

List of patentees of inventions, designs, and reissues, 1862.

Date.	July 1, 1862, Mar. 11, 1862, Mar. 11, 1862, April 19, 1862, Feb. 18, 1862, Feb. 18, 1862, July 8, 1862, July 8, 1862, July 8, 1862, July 8, 1862, July 8, 1862, Mar. 18, 1862, Mar. 18, 1862,	Mar, 4, 1862, Oct. 7, 1862, July 22, 1862.	Jan. 28, 1862, Feb. 4, 1862, Mar. 25, 1862, Aug. 5, 1863, Feb. 11, 1862, May 13, 1862, Sept. 2, 1862,	May 20, 1862. May 20, 1862. Oct. 14, 1862.	July 29, 1963, July 22, 1863, May 20, 1863, Oct. 28, 1863. April 8, 1863. June 10, 1863. June 10, 1863.
Invention or discovery.	Boots and shoes, metallic heels for Cultivators Line-holders for masons' work Chandelier Finance in brecket Fire-transparent conting Fire-transparent conting Fire-transparent conting Fire-transparent conting Fire-transparent conting Fire-transparent conting Fire-transparent conting Fire-transparent conting Fire-transparent conting Fortigerator Fortigerat	and amalgamating the precious metals,	appuratus for. Camp cot and chest combined Inkertand Grafes bars Grafes bars Ship-building Carriages, hold-back for.	Photographic albums. Hammers, forging. Washing machine.	Bridle, halter Bridle, halter Pens, metalilo Ilorvosters Stovus Rivyus Rivyus Cuniyators Cuniyators
Residence.	Antwerp, N. Y. Henry, III. Rocky IIII, Conn Meriden, Conn. Meriden, Conn. United States army Frontedone, R. I. Warwick, R. I. Albany, N. Y. Philadelphia, Pa. New York, N. Y.	Amsterdam, N. T. New York, N. Y. Lynn, Mass	Brooklyn, N. Y. East Cambridge, Mass East Cambridge, Mass Pails Cambridge, Mass Pails Cambridge, Mass Brooklyn, N. Y. Philadelphis, Pa. Dansville, N. Y.	Waterbury, Conn Newark, N. J Newark, N. J	Logansport, Ind. Logansport, Ind. Logansport, Ind. Ribactions N. Y Fiber Conversion of the Conversion
Мать.	Green, Henry Green, Isaad A. (See Armstrong, F. W., assignor.) Green, J. S., i., et al. (See Armstrong, F. W., assignor.) Green, W. L., mad P. J. Clark, assignors to S. S. Clark, Green, W. M. H., mad P. J. Clark, assignors to S. S. Clark Green, J. Durell Green, J. Durell Green, J. Durell Green, J. Durell Green, J. Durell Green, John F., assignor to Samuel Boyd Tobey Green, John F., assignor to Samuel Boyd Tobey Green, William A. Green, Will	Orgory, Janes. (See Suiton, John, assignor I.) Gregory, Willis L., assignor to self and Gardner Landon, jr. Grenoll, H. W., and H. B. Lansing. (See Lanning& Grenell.) Gridley, F. C. (See Clay, James O., assignor.) Griffin, James F. Griffin, Galeb H., assignor to Walter D. Richards	Griffin, Thomas J. Griffing, Augustus P. Griffing, Augustus P. Griffins, Dalip. Griffins, Dalip. Griffins, Dalip. Griffins, John W. Griffiths, John W. Griffiths, Thomas F.	Griggs, Elizur D. Grinshaw, William D. Grinshaw, William D. Grinshaw, William D. Grinshaw, William D.	Griswold, George W Griswold, George W Griswold, George W Griswold, Richard Grob, John M. Freitre, Smith, nasignor to himself, Jasob Shavor, and Lewis Freitre, Smith, nasignor to himself, Jasob Shavor, and Lewis Freitre, Smith, nasignor to himself and Jacob Shavor
No.	8.4. 2.1.1.28.88.82.22 E6	34, 011 36, 912 35, 980	88.88888 88.8888 8888 8888 8888 8888 8888 8888 8888 88	35,330 36,330 36,300 36,300	26.28.28.28.28.28.28.28.28.28.28.28.28.28.

Aug. 19, 1803. Jun. 7, 1803. June. 21, 1803. June. 21, 1803. May 7, 1803. May 77, 1803. May 77, 1803. Feb. 4, 1863. Feb. 4, 1863. May 27, 1803.	Sept. 16, 1862. June 17, 1862.	Dec. 2, 1862, Mar. 18, 1862, Mar. 18, 1862, Oct. 21, 1862, Mar. 11, 1862, July 29, 1862, April 1, 1862,	Nov. 11, 1862, July 1, 1862, Dec. 9, 1862, Sept. 9, 1862, Oct. 7, 1862, Aug. 12, 1862,	Now. 18, 1862. Oct. 7, 1862. Jan. 14, 1862. Feb. 4, 1862.	Feb. 25, 1862. Dec. 16, 1862. Feb. 18, 1862	Feb. 25, 1862 July 29, 1863 April 29, 1863 June 10, 1862 April 29, 1862 July 8, 1862 Oct. 14, 1862
Churing Weaking machine Weaking machine Gaaregulator Sewing machine needles Sewing machine Soup, bennot Pontoon, fron Charinge wheek, machine of Match economicals Watch economicals	Washing machine, rollers for Pumps, rotary		e attachments for n is used r horn, hard rubber, &co.	Grates for coal stoves and furnaces Feed-water heating apparatus Wringing machines rollers for Releans		Pictures, cards, &c., metallic cases for Shawl pins Shawl pins Sola, observed traction Sola, observed the table, trunk, oct, &co. Ordnance, breech-loading Plough-shares Forging, bending, and shaping piough-shares, machine for
Greton, N. Y. Oblo Ciyled Villago. Ciyled Villago. Duplantific. Wiss Novich, Mass Hostor, Mass Hostor, Mass Galesburg, III Berlin, Prussis Troy, N. Y. Cornwall, Y.	Dedham, Mass. Brooklyn, E. D., N.Y	Ockaloos, Iowa Walcott, Vt. Walcott, Vt. Hamilton, Ohio Brooklyn, N. Y. While Plains, N. Y.	Norwalk, Ohlo. Altenburgh, Hungary Dobb's Ferry, N. Y New York, N. Y Williamsburg, Ohlo Buffalo, N. Y	Albany, N. Y. Boston, Mass. South Delbam, Mass	South Dollan, Mass Donaville, N. Y. Brocklyn, N. Y. Highgate, Vt	Philadelphia, Pa. Danby, Vt. Grarville, Ohio Griemati, Ohio Pittaburg, Pa. Pittaburg, Pa.
Grover, Denute for Grover, Denute for Grover, Mintenn, and Grover, William O. Grover, William O. Grover, William O. Grover, William O. Grover, Rulph Grund, Hormann, as Grand, Hormann, as Grand, Change H.	Guild, Lewis, assignor Guild, Lewis, assignor Guild, William H	Guiterman, Simon. (See Vogl, David, assignor.) Gunn, D. M., and C. L. Cain. Guyer, Earl Guyer, Earl Gwynn, Edward, and A. C. Campbell. Gwynne, W. H. Gwynne, W. H.	Hacker, Levi L. (See Witsel, George L., assignor.) Hacker, Ladwig. Hacker, Ladwig. Hacfarr, Valentino. Hacyman, Sabert Hacyman, James Halyen, Mosed. Halles, Win. and John G. Treadwell &			Hall, H. J. Hall, T. Hall, and H. Hall, jr. Hall, History M. Hall, Jeremiah. Hall, John S., and J. M. Connel. (See Connel & Hall.) Hall, John S. Hall, John S.
84.25.25.25.25.25.25.25.25.25.25.25.25.25.	8,8, 4,9,	88888888888888888888888888888888888888	98,773 98,773 98,613 98,613	36, 950 34, 142 34, 142	. 4. 2. Diag.	Sec. 21. 25. 25. 25. 25. 25. 25. 25. 25. 25. 25

List of patentees of inventions, designs, and reissues, 1862.

Date.	July 1, 1862. Mar. 11, 1862. Mar. 11, 1862. April 29, 1862. Feb. 18, 1862. July 8, 1862. July 8, 1862. July 18, 1862. Sept. 2, 1862. Mar. 18, 1862.	Mar. 4, 1869,	Oct. 7, 1862. July 22, 1862.	Jun. 28, 1863, Feb. 4, 1863, Mar. 25, 1862, Aug. 15, 1862, Feb. 11, 1862, May 13, 1862, Sept. 2, 1863,	May 20, 1862. May 20, 1862. Oct. 14, 1862.	July 23, 1863, July 23, 1863, May 20, 1863, Oct. 28, 1863, April 8, 1862,	June 10, 1862, Oct. 28, 1863, Jun. 28, 1864, April 1, 1863,
Invention or discovery.	Boots and shoes, metallic heels for Cultivators Line-holders for masons' work Line-holders for masons' work Cultivation Lamp bracket Fire-arm, breech-loading Fire-arm, breech-loading Fabric, water-proof Fabric, water-proof Fabrics, water-proof Refrigerator Refrigerator Cork into strips, machinery for cutting	Skates	Jars, fruit Ores, grinding and amalgamating the precious metals,	Cappending our chart combined Camp cot and chest combined Camp cot and chest combined Cappending Cappending Cappending Cappending Cappending Cappending Cappending Carriages, hold-back for	Photographic albums Hammers, forging Washing machine	Bridle, halter Can for preserving fruits, &c. Pron, metallic Harvesters Stoves	Stoven Micho, cambrer, oxplostvo Mporms, abuseimetal Cultivators
Residence.	Autworp, N. Y. Henry, Ill. Rocky Hill, Conn. Meriden, Conn. United States army Provick, R. I. Warwick, R. I. Warwick, R. I. Albany, N. Y. Philadelphis, Pr. New York, N. Y.	Amsterdam, N. Y	New York, N. Y. Lyun, Mass.	Brooklyn, N. Y. East Cambridge, Mass East Cambridge, Mass Philadelphia, Pa. Brooklyn, N. Y. Philadelphia, Pa. Dansville, N. Y.	Waterbury, Conn Newark, N. J Newark, N. J	Logansport, Ind. Logansport, Ind. Brailbirdge, N. Y Shalibirdge, N. Y Troy, N. Y	Troy, N. Y. Troy, N. Y. N. W. Y. Y. Manulla, Jud.
Ивте.	Green, Henry. Green, Issae A. (See Armstrong, F. W., sasignor.) Green, J. B., Ir, et al. (See Armstrong, F. W., sasignor.) Green, W. II., and P. J. Clark, assignors to B. S. Clark, Green, W. III., and P. J. Clark, assignors to S. S. Clark, Green, J. Durell. Green, John F., assignor to Samuel Boyd Tobey Greene, John F., assignor to Samuel Boyd Tobey Greene, John F., assignor to Samuel Boyd Tobey Greene, John F., assignor to Samuel Boyd Tobey Greene, William Greene, Greene, William A. Greene, Greene, William A. Greene, Greene, William A. Greene, Greene, William A. Greene, Greene, William A. Greene, Greene, William A. Greene, Greene, William A. Greene, Greene, William A. Greene, Greene, William A. Greene, Greene, William A. Greene, Greene, William A. Greene, Greene, William A. Greene, Gree	Gregory, James. (See Sutton, John, assignor.) Gregory, Willis L., assignor to self and Gardner Landon, Jr. Grecory, W., and dl., B. Lansing, (See Landon, Jr. Gridler, F. C., (See Clav. James O., assignor.)	Griffin, James F. Griffin, Caleb H., assignor to Walter D. Richards	Griffin, Thomas J. Griffing, Augustus P. Griffing, Augustus P. Griffing, Augustus P. Griffing, Dalipy Griffing, John W. Griffiths, John W. Griffiths, Thomas P. Griffiths, Thomas P.	Griggs, Elizur D. Grimmen, C. L. L. Griggs, Elizur D. Grimshaw, William D. assignor to himself and Course A. Grimmen, William D., assignor to himself and Course A.	Griswold, George W Griswold, George W Griswold, Robard Griswold, Robard Grob, John M Groom, Smith, sasignor to himself, Jasob Shavor, and Lowis	Oronn, Smith Groom, Smith, notignor to binsoif and Isoob Shavor Green, Pierun, Ger jean, Lieran
No.	24. 24. 1. 1. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	34,01	85, 012 85, 980	884 683 885 883 843 886 843 886	888 899	88884 88658 88688	8 888

A 70, 13, 1803, 1, 10, 10, 10, 10, 10, 10, 10, 10, 10, 1	Sept. 16, 1862. June 17, 1862. Dec. 1862. Mar. 18, 1862. Mar. 18, 1862. Oct. 21, 1862.	Mar. 11, 1882. July 29, 1863. April 1, 1862. Nov. 11, 1862. Dec. 9, 1862. Sept. 7, 1862. Aug. 12, 1863.	Nov. 18, 1962. Oct. 7, 1862. Jan. 14, 1862. Feb. 4, 1862. Peb. 5, 1862. Dec. 16, 1862.	Feb. 18, 1963 Feb. 25, 1963 July 29, 1963 April 22, 1963 July 8, 1962 July 8, 1962 Oct. 14, 1962
Churms Violagha Violagha Violagha Violagha Gast-affors Gast-affors Gast-affors Gast-affors Gast-affors Gast-affors Gast-affors Gast-affors Gast-affors Gast-affors Gast-affors Gast-affors Carriage wheels, machine for making Watch setespements	Washing machine, rollers for Pumps, rotary Bee-hives Stoves Save mills Fire-srms, breech-loading	das water, apparatus for making Gas, ilmulasting, manufacture of Water-wheel Taps, reamers, &c., guide attachments for Blawing when Indian corn is used Cellar, artificial Composition substitute for horn, hard rubber, &c. Skates, ankle support for	Grates for coal stoves and furnaces Feed-water heating apparatus Wringing machines, rollers for Wringing machines, rollers for Willis, faming ness, rollers for Lamps, coal-oil	Caster, spring Pictures, cards, &c., metallic cases for Shawl plus Cur-brakes, reaction Soft, convertible into a table, trunk, cot, &c. Ordnance, breech-loading Plough-shares Forging, bending, and shaping plough-shares, machine for
Greton, R. Y. Cho Duplan Villa, Wis. Holyoto, Mass. Holyoto, Mass. Boston, Mass. West Robury, Mass Galesburg, III Berlin, Prussia. Corn, N. Y.	Brooklyn, E. D., N.Y Oskaloosa, Iowa Walcott, Vt. Walcott, Vt. Hamilton, Qhio	Brooklyn, N. Y. White Plains, N. Y. Beenville, Pa. Norwalk, Ohio Altenburgh, Hungary New York, N. Y. Willamburg, Nio	Albany, N. Y. Boston, Mass. South Delham, Mass South Delham, Mass Danaville, N. Y. Brooklyn, N. Y.	Highgate, Vt. Philadelphia, Pa Danby, Vt. Granville, Ohio Cincinnati, Ohio Pittaburg, Pa Pittaburg, Pa
Grover, Dennie L. Grover, Minnasch. Grover, William G. Grover, William G. Grover, William G. Grover, William G. Grover, William G. Grover, William G. Grover, Ralph. Grover	Guid, Levris, ussignor to Willam Irwin. Cose Irwin & Guest.) Guild, Levris, ussignor to Willard Everett & Co. Guild, William H. Gurerman, Simon. (See Vogl. David, assignor.) Gunn, D. M., and G. L. Cain. Guyer, Earl Guyer, Earl Gwyer, Earl Gwyer, Earl	Smith. Witsel, George L., assignor.) n		Wulliam A. Nichols, and Theodoro C. Sears. Hall, Edward, Gse Davis, Job C., assignor.) Hall, E. J., assignor to himself and C. P. Stimels, assignors to C. P. Stimets. Hall, H. J. Hall, T. Hall, and H. Hall, Jr. Hall, Jeremiah Hall, John S., and J. M. Connel. (See Connel & Hall.) Hall, John S. Hall, John S.
44255444544455 54444545454545 54445454545	88 P448 48 8886	4844 888,888 888 887,888,88 888 887,889,88	36, 950 36, 614 34, 143 1, 270 34, 488 37, 197	Digital 18 25 25 25 25 25 25 25 25 25 25 25 25 25

List of patentees of inventions, designs, and reissues, 1862.

		The second secon	,	
No.	Name.	Residence.	Invention or discovery.	Date.
36, 808 36, 612 34, 361 36, 064	Hall, D. F. ussignor Hall, O. J., ussignor Hall, R. II. Hall, Samred, decead Hall, William Smith Hallsday, William,	Fonda, N. Y. Pitusford, N. Y. Owego, N. Y. Pittsburg, Pa. Milton, Mass	Shawi pins Railroad chairs Axies for wheel vehicles Ploughs Sowing machines	Nov. 4, 1863. Mar. 4, 1863. Feb. 11, 1862. April 7, 1862. Aug. 5, 1862.
8-18488 <u>9</u> E8588496	Gries, Hathrip & Halsted, James D. a Ilam, Robert, assign Hamblet, James, Jr. Hamiton, Robert Hamiton, Robert Hamiton, Samuel H Hamiton, Samuel H Hamiton, William	Bye, N. Y. Troy, N. Y. Boston, Mass. West Vincent, Pa. Franklin, Ind. Vacksonville, Ill. West Pittsburg, Fa.	Cultivators, hand. Stove, cook's Clocks, watch Bricks, match Bricks moulds Sugar evaporator, portable Ico-ream freezer Axies, mode of securing wheels to	May 20, 1862, Jun. 7, 1862, July 1, 1862, Jun. 28, 1862, Aug. 26, 1862, Nov. 11, 1862, Feb. 25, 1862,
4, 143 86, 710 88, 710		Pavillion, N. Y. St. Louis, Mo. Cinclanatt, Oblo	Car-coupling Prescription cases, physicians' Mouldings, ovel, machine for planing	Jan. 14, 1862. Oct. 21, 1862. Mar. 11, 1862.
36, 460 37, 080 36, 293		Piscatonica, III Philadelphia, Pa Covington, Ky	Harvesters Lamps, coal-oil Projectile, explosive, for ordnance	Sept. 16, 1862. Dec. 2, 1862. Aug. 26, 1862.
Digitized by	hanyet, w. tt., and, yen.) Hanzo, Lewis, et al. Hardick, John and C. Hardick, John and C. Hardick, John and James B. Ward and James B. Harding, Abner S., et Harding, Abner S., et al.	Brooklyn, N. Y. New York, N. Y. Mount Uppe, N. Y.	·	Sopt 9, 1802, Jan. 7, 1802. April 15, 1862.
00000000000000000000000000000000000000	Hardy, Moses F Harfield, William Horatio Harfield, William Horatio Harfield, William Horatio Harfield, William Horatio Harrield, William Horatio Harriely, Jacob Harriely, Jacob Harriely, Gacob Harriely, Gacob Harriely, Gacob Harriely, Gacob Harriely, Gacob Harriely, Gacob Harriely, Durinder, Durinder, Durinder, Durinder, Durinder, Durinder, Durinder		horses from Ordnance, revolving. Cubles, chain, apparatus for working and stoppering. Cubles, chain apparatus for working and stoppering. Windlivees, chain and cable, construction of Water-wheels. Iluryesters, rakes for.	
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Carling machine of creating and an arrange and an arrange and an arrange and a	
Partition, N.T. Com. Valuation, 100 Vacably, N. I. Vacably, N. I. Vacably, N. I. Vacably, N. I. Radio, Ind. Radio, Ind. Allenwille, Ind. Allenwille, Ind. Allenwille, Ind. Pottable phin, P. Pottable phin, P. Pottable phin, P. Rochester, N. Y. Rochester, N. Y. Brandenphin, P. Brandenville, Va. Brandenville, Va. Brandenville, Va. Independence, Iowa.	
Harring Control Education Process of the Process of	
Harrington, Denester to Wm. T. Gilddom Harrington, Denester to Mm. T. Gilddom Harrington, Denester to M. S. Hernot Harring, John K. Harring, John K. Harring, Joseph, Jr., and Joseph Schnitzer Harring, Geeph, Jr., and Joseph Schnitzer Harring, Geo, W. Har	
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List of patentees of inventions, designs, and reissues, 1862.

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Invention or discovery.																		•				
Residence.																						Onlines III
	lenry G.,	lenry G.,	lenry G.,	lonry G.,	Ienry G.,	Henry G.,	lenry G.,	Jenry G.,	Ienry G.,	Ienry G.,	lenry G.,	Jenry G.,	lenry G.,	Henry G.,	Jenry G.,	Henry G.,	Ienry G.,	lenry G.,	Ionry G.,	lenry G.,	leary G.,	
ne.	(See Thompson, Henry G.,	(See Thompson, Henry G.,	(See Thompson, Henry G.,	(See Thompson, Honry G.,	(Sce Thompson, Henry G.,	(See Thompson, Henry G.,	(See Thompson, Henry G.,	(See Thompson, Henry G.,	(See Thompson, Henry G.,	(Ses Thompson, Henry G.,	(See Thompson, Henry G.,	(See Thompson, Henry G.,	(See Thompson, Henry G.,	(See Thompson, Henry G.,	(See Thompson, Henry G.,	(See Thompson, Henry G.,	(See Thompson, Henry G.,	(See Thompson, Henry G.,	(See Thompson, Henry G.,	(See Thompson, Henry G.,	(See Thompson, Henry G.,	M. B. Morehouse
Name.	Hartford Carpet Company.	Hartford Carpet Company.	Hartford Carpet Company.	Hartford Carpet Company.	Hartford Carpet Company.	Harfford Carpet Company.	Hartford Carpet Company.		Hartford Carpet Company.	Hartford Carpet Company.				Hartford Carpet Company.	Hartford Carpet Company.	Harfford Carpet Company,	.foud.					Harriey, N. D., and M. S. Mo-
o N															itizeo				og	I.		25

assignor to Filio P. H. assignor) Frost, Francis N. assignor, I ob Samuel P. Blaker. (See Barker & Control of John W. Barker. (See Barker & Control of Fuller, Warren & Control of Fuller, Warren & Control of Fuller, Warren & Control of Fuller, Warren & Control of Fuller, Warren & Control of Sedgebeer, Joseph, assignor.) J. B. Bourgelee. J. B. Bourgelee. J. B. Bourgelee. J. Sedgebeer, Joseph, assignor.) J. B. Bourgelee. J. Sed Combe, William, assignor.) Algebrar (See Combe, William, assignor.) All Haryan. Simpson. (See Simpson & Hayden.) Martin Nowman. (See Sanford, Mallory & Hayden.) Martin Nowman. (See Shalarie, Edwyden.)	Valves, silde for steam-engines Aug. 50, 1603. Kilua charcoal Aug. 5, 1803. Stove plates, practice Aug. 5, 1803. Stove plates, plates, practice Aug. 5, 1803. Stove plates,	Refrigerator Page	Cradio-chair	Cotton, machinery for cleaning Feb. 11, Nater-elevators Jan. 28, Water-elevators Ang. 26, Lamps Gracelevators Ang. 26, Lamps Gracelevators Ang. 26, Lamps Gracelevators Ang. 26, Lamps Gracelevators Ang. 27, Vulcanizing flasks, fastening covers to July 8, Water-wheel July 8, Trade-mark on sword blades Gracelevators (Design). Feb. 18, Trellis frame
Harrichori, John, T. Harrichori, John, T. Harrichori, John, T. Harrichori, John, T. Harrichori, John, T. Harrichori, John, T. Harrichori, John, Angella, B. Haskins, Junes P., at Haskins, Junes P., at Haskins, Junes P., at Haskins, Junes P., at Hathawa, A. Horrechafteld, John, asagno Hathaway, David, asa Hathaway, David, asa Hathaway, David, asa Hathaway, David, asa Hathaway, David, asa Hathaway, David, asa Hathaway, David, asa Hathaway, David, asa Hathaway, David, asa Hathaway, David, asa Hathaway, Donahan Hawes, Jonahan Hawes, Loring P. Hawes, Jonahan Hawes, Loring P. Hawkins, Jonas N. Hawkins, Shunde R. Hawkins, Shunde R. Hawkins, William H. Hawkins, William H. Hawkins, William H. Hawkins, William H. Hawes, Bonjamin B. Hawe, Bonjamin B. Hawe, Bonjamin B. Hayes, Clark J., and Hayes, Clark J., and Hayes, Clark J., and Hayes, Clark J., and Hayes, Clark J., and Hayes, Clark J., and Hayes, Clark J., and Hayes, Simson Hayes, Simson Hayes, Sunea	Fitteburg, Pa. Chlosgo, II. Troy, N. Y. Gorman, Mich. Hormung, Muss.	New York, N. Y. Troy, N. Y. Troy, N. Y. New York, N. J. Troy, N. Y. New York, N. Y. New York, N. Y. New York, N. Y. New York, N. Y. New York, N. Y. New York, N. Y. New York, N. Y. New York, N. Y. New York, N. Y. New York, N. Y. New York, N. Y.	Lewiston, N. Y. Paterson, N. J. New York, N. Y. New York, N. Y. Balleville, Pa. Lockhavon, Pa. Lockhavon, Pa. Manchester, England Morrhaville, Pt. Wigney Farm, Ill. Manchester, England Morrhaville, Pt. Willey Will. Will.	Lawrence, Mass. Indimapolis, Ind. Golumbus, Olio. Haydeaville, Mass. Pittsburg, Pa. Unsdille, N. Y. Philadelphia, Pa. Pratiaburg, N. Y. Pratiaburg, N. Y. Pratiaburg, N. Y.
9 9000 - 4 1000 - 1000 - 1000 - 1000 - 1000 - 1000	Harristori, John (See Obamborlali, D. H., assignor.) Harristori, John (See Obamborlali, D. H., assignor.) Harristori, Luther W., assignor to Philo F. Stewart Haskin, Joremlah H. (See Freek, Francis N., assignor.) Haskin, John, assignor to Samuel P. Blake. Haskin, John, assignor to Samuel P. Blake. Hoskins, Johnses P., and John W. Barker. (See Barker	Hastings, A. Horaco. Hastings, A. Horaco. Hastings, A. Horaco. Hastings, John, assignor to Percy & King. Hastingl, Web. Hathaway, David, assignor to Fuller, Warren & Co. Hathaway, John & E. Hathaway, John & E. Hathaway, John & E. Hathaway, John & F. Hathaway, John & F. Hathaway, John & F. Hathaway, John & F. Hathaway, John & F. Hathaway, John & F. Hathaway, John & F. Hathaway, John & F. Hathaway, John & F. Hathaway, John & F. Hathaway, John & F. Hathaway, John & John & Bourgoles.	Haven, Jonathan H. Haven, William H. Havens, William H. Hawkins, George H. Hawkins, Jonus N. Hawkins, Samuel B. Hawkins, William L. Hawkins, William L. Hawkins, William L. Hawkins, William E. Hawkins, William E. Hawkins, William E. Hawkins, William E. Hawkins, William B. Hawkins, William B. Hawkins, William B. Hawkins, William assignorio Charles Pierce Hawver, Adam, and W. H. Hanyen.	oth. Simp Simp Simp (Section H.Sh

List of patentices of inventions, designs, and reissues, 1862.

Date.	Mar. 11, 1862.	Sept. 2, 1862. Sept. 16, 1862. July 22, 1862. June 3, 1862.	Sept. 23, 1862. May 27, 1862. July 1, 1862.	Juno 3, 1862. Dec. 16, 1862. April 15, 1862. Nov. 25, 1862. Feb. 25, 1863.	Mar. 4, 1862.	Sept. 23, 1862. Aug. 19, 1863. June 10, 1862.	Oct. 28, 1862. Oct. 28, 1863.	Oct. 28, 1863.	_	Feb. 11, 1862. Juno 17, 1862. April 15, 1862.	Frb. 85, 1460.
Invention or discovery.	Paper, safety	Bee-hives. Vehicles, &c., mode of securing cross-bar and shafts to Shingle machines. Cigars, machine for making.	Mills, spice Bridges, wronght-iron Canal lock gates, valves or wickets for	Ordnance Cultivators Weights, raising and lifting Threshold, water-proof Printing press (Reissuo)	Spoon or fork handle(Design) Mar. 4, 1862.	Mest-chopper Threshing machines Washing machines	and solutions, by means of steam, evapo- keissue.)			Leather, cnamel for Practice to Pantaloon, attaching straps to Cloth, diagonal, method of producing.	Shirts, hoop. Governmenting for drossing and drying.
Residence.	Сысадо, 111.	Bethlehem, N. Y. Coventry, N. Y. Millerburg, Pa. Washington, D. C.	San Francisco, Cal Little Falls, N. Y Little Falls, N. Y	New Haven, Conn. Peorla, Ill Flushing, N. Y. Pleno, Ill Buffalo, N. Y.	New York, N. Y	Madkon, Ind. Danville, N. Y. Now York, N. Y	Chicago, Ill.	Chicago, Ill	Nebraska City, Neb. Ter Mulhousetown, France. Philadelphia, Pa.	Brooklyn, N. Y. New York, N. Y. New Brunswick, N. J.	Waterbury, Conn
Name.	Hayward, George. (See Place, William H., assignor.) Hayward, Monry. Hazen, Alonzo, and Alonzo M., et al. (See Fairchild, L. S.,	Harten, Jusper- Hazen, Luther T. Head, Smith, assignor to himself and William McKissick. Headd, I. A. Headd, I. A. Headd, Head A. A. Head, Head A. A. Head A. A. A. Head A. B. A. A. A. A. A. A. A. A. A. A. A. A. A.	B. Wilson, decensed. (See Wilson, Joseph B.) Heath, Eleander Heath, George Heath, George	Heaton, Divid, 3d. (3ee wallams, 1 tract, assignor.) Heaton, R. L. Heaton, John Heaton, Jehn Heaton, Jehn Heaton, Jehn Heaton, Jehn Hebard, George F., George J. Hill, and S. D. Rockwell,	assignors by mesue assignments to Saniord Liarroun & Co. Hebbard, Hender, and John Gibson. (See Gibson & Heberger, Michael, and John Gibson.	Heberger.) Heberhart, F. G. Heckman, Henry Heckrotte, A. G.	Heckiner, Edward. (See Beilgy, Charles, Bailgnor.) Hedges, Wheeler, assignor through meane sasignments to P. W. Gatte, Thomas Chalmers, and David R. Fraser. Hedges, Wheeler, assignor through meane assignments to	P. W. Gates, Thomas Chalmers, and David R. Fruser. Hedges, Wheeler, assignor through meane assignments to P. W. Gates, Thomas Chalmers, and David R. Fruser. Hedres, Wheeler assignor through means assignments to		Helikamp, L., and G. Trinks. (See Trinks & Helikamp.) Helid, Charles W. Heller, Saumel. Heller, Rannel. Heller, Robert G. Heller, Robert G.	Henderson, Duvid
No.	34, 634	36,349 35,461 35,974 412	36, 517 35, 374 35, 756	35, 443 34, 166 36, 957 1, 279	1, 548	36, 518 35, 214 35, 518	1,347	1,349	34,93 37,494 37,494 37,494	25.24 26.36 36.36 36.36	25. 404 36, 823

Iterative Iter	Itentory Doo. 12, 1809. Lubricating composition for unchinery Hulling machines	Augers, hollow Turing tregal form, machine for Feb. 25, 1862, 1862,		Stump extractors. Dress-protector By Avoing transes. Machos, transes. Machos, transes. Macture of. Gun barrols, manufacture of.	Gea, iliuminating, making Gea, iliuminating, making Genes or checker board Genes or checker board Furnacea, hot-sir. Furnacea, hot-sir. Furnacea, hot-sir. Linka, adjuatable Anamunition box, military	Broom. Glass mossures, graduated, manufacture of. Feb. 18, 1962.
Henderman, Joseph O., mid Jimine H. Frink. (see Final) Henderfold. The Manager of Diment, James H. Frentee, and Job W. (See Harry, Jacob R., sadgnor.) Hender, A. B. M. et al. (See Harry, Jacob R., sadgnor.) Hender, A. B. B. et al. (See Harry, Jacob R., sadgnor.) Hender, A. B. B. et al. (See Harry, Jacob R., sadgnor.) Hender, A. B. Hender, Street R. (See Enlers E. Herror.) Hender, John H. E. and Frankin Farral Hender, John H. Constitute Hender, John H. W. Butler, (See Butler & Hoard, Hender, John H. W. Butler, (See Butler & Hoard, Hender, John Hender, June, Hender, J. W., and Goo, B. Wiggins & Hoard, Hender, J. W., and Goo, B. Wiggins (See Burg, Philander) Hender, J. W., and N. D. Sliboo, (See Blaze, Philander) Resignor.) Hodges, Chas. E., and N. D. Sliboo, (See Blaze, Philander) Resignor.) Resignor.) Resignor.) Resignor.) Resignor.) Resignor.) Resignor.) Resignor.)		Seymour, Gonn Seymour, Conn Buffalo, N. Y. Buffalo, N. Y. United States army United States army Lightest of Columbia Morrisania, N. J. Albany, N. Y. Milwankie, Wis.	Bedford, Ohio Carmichaet, Pa. Hermitage, N. Y. Providence, R. I. Providence, R. I. Cleveland, Ohio	Hartford, Conn. Boston, Mass. Salford, Grest Britain. Bow, England.	Bradford, Coun. Hudson, N. Y. Wew York, N. Y. Fall River, Mass. Albany, N. Y. Albany, N. Y. Coularquelon, Iows. Norwalk, Ohlo.	Clinton, Ill Philadelphia, Pa
F KEEF	Handerson, Jeseph C. Lumingerson, Thomas W. Rendrick, Ell E. Hendrick, Ell E. Hendrick, Ell E. Hendrick, Ell Mors- Lindricken, Facklel Frendrick, and Job W. Hendrick and G. H. Est	Hondry A. B. and Frakka Farsa Hondry A. B. and Frakka Farsa Hondry John Hondry John Hondry Robert Ho	Heaten, Researce Co., (coefficient H. Comstock.) Heavist, John. Heavist, John. Heavist, J. and J. Remsen Dikeman. (See Dikeman & Hubbert, James, Geoensed, by Peieg Hull, administrator Hicks, Charles, Geoensed, by Peieg Hull, administrator Hicks, Charles, George B.	Hicks, Isaac, assignor to self and Levis E. Fack. Hicks, Merrill E., and Orin Sweet. (See Sweet & Hicks.) Higgins, Elranbeth, assignor to Henry Higgins. Higgins, James, and Thomas Schofield Whitworth. Higgins, Thomas. Higgins, Willard S. (See Rouse, Philander, assignor.) Higgins, Willard S.	Hill, Albert M., satignor to Charles A. Miller. Hill, Goo, J., et al. (See Hebard, Hill & Bockwell, Beisma,) Hill, Walter S., and Samuel T. Reed Hillard, James P. Hillard, James P. Hills, Johannes J. Hills, J	Hong, A. C. Hong, A. C. Hourd, J. W., and Geo. Holges, Chas. E., and hasignor.) Resignor.) Hodgeson, William, fr.

List of patentees of inventions, designs, and reissues, 1862.

Ko.	Name.	Residence	Invention ar discovery.	Date
36, 615	75.75	Salem, Mass.	Washing and wringing machine	Oct. 11, 1862.
35, 876 35, 315	Hoeniger, John Hofflieins, Reuben.	New York, N. Y. Dover, Pa.	Amalgamating gold and silver, machine for Harvesters	July 15, 1862. May 20, 1862.
35, 152	Hoffman, C., and Wm. Graichen. (See Graichen & Hoffman.)	Brooklyn, N. Y	Hydrometers	May 6, 1862.
35, 444 34, 576	Holben, Jacob Holbrook, Wm. H	Allentown, Pa. New York, N. Y. Benndon Vt	Mills, grinding, operating Singly selected	
8		Worcester, Mass.	Fire-arm, breech-loading	April 1, 1862.
35,445 24,458	Holdsworth, Samuel	Durham, EnglandBlairsville, Pa.	Looms	June Feb.
88 8	Hollen, Joseph	Fostoria, Pa. Baltimore, Md.	Knitting machines. Branding and stamping irons	Sept. 2, Feb. 4,
¥.8 8	Holy, Solomon T.,	Rockford, III. Rockford, III.	Haryestors. Haryestors	Mar. 25, 1862. April 29, 1862.
38,860		Waterbury, Conn	Lamps, shade for	April 1, 1862
	Holmes, Daniel, and Joseph Harris, jr. (See Harris & Holmes, Paniel, and Joseph Harris, jr. (See Harris &	Chelibea, mass	Journals, foling of Irichoniess	
¥¥ \$8	Holmes, John Holmes, John	Boston, Mass	Coal-sifters Castor, ball furniture	Feb. 25, 1862. April 1, 1862.
1,615	===	Brooklyn, N. Y.	Photographic background(Design.) Aug. 5, 1862.	Aug. 5, 1862.
8	assignor.) Holvtein & Hammer. (See Hammer, Gustavut, assignor.) Holston. John C. assignor to Samuel M. Davis.	Derre N. H		
.2 .	Holt, Jared.	Albany, N. Y. Philadelphia, Pa.	evice for drawing in(Design.)	Mar. 25, 1862. Dec. 16, 1862.
34, 148 35, 024		Washington, D. C	Tobacco pipes. Car-trucks	Jan. 14, 1862. April 22, 1862.
8.8 8.6 1.8 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Hooven, w. m. ft. (See Sweedy, Cantre E., Besignor.) Hope, Thomas, susignor to himself and Henry Edgarton Hopkins, Adam P. Hopkins, Charles W., assignor to himself, Thomas K. Ba-	Boston, Mass. Bunitcysville, Pa. Norwich, Conn.	Skates Fence for shoepfolds Fire-grams, revolving	Dec. 2, 1862. Oct. 14, 1862. May 27, 1862.
34, 636 36, 464	con, and A. E. Cobb. Hopkins, David A. Hojskins, Invvy L. (See Davis, Richard M., nasignor.)		Journal-bozes, railroad car. Fre-srms, tiges for	Mar. 11, 1862. Sept. 16, 1862.

Content of the cont	1 1 2		June 3, 1862, Sopt. 9, 1862, Sept. 9, 1862, Sept. 9, 1862.	July 8, 1862. Mar. 18, 1862. April 6, 1862. Nov. 11, 1862. Jan. 7, 1862.	May 9, 1862. June 17, 1862. Sept. 16, 1862. July 15, 1862. Feb. 11, 1862.	May 6, 1963. June 10, 1862. June 24, 1863. May 27, 1863. June 10, 1863. Feb. 25, 1862.	Nov. 11, 1862.	Feb. 18, 1862. June 24, 1862.	Feb. 18, 1862.	June 24, 1862. May 20, 1862. Oct. 28, 1862. June 3, 1862.	Sept. 16, 1862. Oct. 22, 1862.
Horden William (See Hurron Thomas II. Stubba. Horden William H. Hophin James II. Stubba. Horden William H. Hophin James II. Stubba. Horden William H. Hophin James II. Stubba. Horden William H. Hophin James II. Stubba. Horden William H. Hophin James II. Stubba. Horden William H. Horden II. See Martino & Horton. Horden James M. Horden II. See Martino & Horton. Horden II. Richard Horden II. B. B. Hotchkis, B. B. Hotchkis, B. B. Hotchkis, B. B. Hotchkis, G. A. Hotchkis, Julius (See Cooke, James C., assignor.) Hotchkis, Julius (See Cooke, James C., assignor.) Hotchkis, Julius (See Cooke, James C., assignor.) Hotchkis, Julius (See Cooke, James C., assignor.) Hotchkis, Julius (See Cooke, James C., assignor.) Hotchkis, Julius (See Cooke, James C., assignor.) Hotchkis, Julius (See Cooke, James C., assignor.) Hotchkis, Julius (See Cooke, James C., assignor.) Hotchkis, Julius (See Gougembre, H. P., assignor.) Hotchkis, Julius (See Gengembre, H. P., assignor.) Howard, Goorge W. (See Gengembre, H. P., assignor.) Howard, Goorge W. (See Gengembre, H. P., assignor.) Howard, John R. H			 				Sowing machines				(Extension.)
Horbits, Marie Andrews (New Juries) Horbits, Marie Andrews (New Juries) Horbits, Marie Andrews (New Juries) Horbits, Marie Andrews (New Juries) Horbits, Marie Andrews (New Juries) Horbits, Marie Andrews (New Juries) Horbits, Marie Andrews (New Juries) Horbits, Marie Andrews (New Juries) Horbits, Marie Andrews (New Juries) Horbits, Marie Andrews (New Juries) Horbits, Marie Andrews (New Juries) Horbits, Marie Andrews (New Juries) Horbits, Marie Andrews (New Juries) Horbits, Marie Andrews (New Juries) Horbits, Marie Andrews (New Juries) Horbits, Marie Andrews (New Juries) Horbits, Julius (New Cooke, James G., assignor) Horbits, Julius (New Cooke, James G., assignor) Horbits, Julius (New Cooke, James G., assignor) Horbits, Julius (New Julius) Horbits, Julius (New Cooke, James G., assignor) Horbits, Julius (New Cooke, James G., assignor) Horbits, Julius (New Cooke, James G., assignor) Horbits, Julius (New Cooke, James G., assignor) Horbits, Julius (New Cooke, James G., assignor) Horbits, Julius (New Cooke, James G., assignor) Horbits, Julius (New Cooke, James G., assignor) Horbits, Mark H. Howard, Charles Howard, Charles Howard, George W. (See Gengembre, H. P., assignor) Howard, George W. (See Gengembre, H. P., assignor) Howard, George W. (See Gengembre, Mark H. Howard, George W. (See Gengembre, H. P., assignor) Howard, George W. (See Gengembre, Mark H. Howard, George W. (See Gengembre, Mark H. Howard, George W. (See Gengembre, Mark H. Howard, George W. (See Gengembre, Mark H. Howard, George W. (See Gengembre, Mark H. Howard, George W. (See Gengembre, H. P., assignor) Howard, George W. (See Gengembre, Mark H. Howard, George W. (See Gengembre, Mark H. Howard, George W. (See Gengembre, Mark H. Howard, George W. (See Gengembre, Mark H. Howard, George W. (See Gengembre, Mark H. Howard, George W. (See Gengembre, Mark H. Howard, George W. (See Gengembre, H. P., assignor) Howard, George W. (See Gengembre, Mark H. Howard, George W. (See Gengembre, Mark H. Howard, George W. (S	Now York, N. Y.		Jeney City, N. J. Liverpool, England Brooklyn, N. Y. Brooklyn, N. Y.	Albany, N. Y. Claremont, N. H Dutch Flat, Gal Todda Yalley, Gal	Sharon Conn. Sharon, Conn. Sharon, Conn. Sharon, Conn. Pleasant Township, Ind.	Morrisania, N. Y. Buffalo, N. Y. Buffalo, N. Y. Buffalo, N. Y. Hallias, V. New York, N. Y.	Brooklyn, N. Y	Cleveland, Ohio	Pontiac, Mich	San Francisco, Cal Worcester, Mass Elyria, Oliv. Flushing, N. Y.	Providence, R. I
	Horking Chemistra and M. Soldy (Cost Hely & Horking.) Horking Person and San Hatchingon, C. S., assignor.)	Hopper William sensitive to himself and J. P. Rittenbouso- lorn the property of himself and Z. Stubba. Hopper, James (See Barron, Thomas I, askignor,)	Horston, Futer N. Horston, Puter N. Horston, Pater N. Horston, William H. Horston, William H. Horston, William H. Horston, William H. Horston, William H.	Horion, Junes, and John Martino. (See Martino & Horion.) Horion, Junes M., assignor to James H. Humphrey Horion, M. L. Hoakins, Richard Hosmer, Thomas N.	Hotchkisg, B. B. Hotchkisg, R. B. Hotchkisg, R. B. Hotchkisg, R. B. Hotchkisg, R. B. Hotchkisg, R. B.	Cooke, James C., assigno H. Denison Ant. (See Hall David B		wman. Wm. M. Randall. (See Randall	- :	Howard, Tabella J. H. Howard, John R. Howard, Sobre Howard, William Howard, William Howard, William Howard, William Howard, See Gardner & Howe,	1

List of patendoss of inventions, designs, and ressues, 1863.

Date	20, 1863 20, 23, 1863 21, 1863 21, 1863 21, 1863 21, 1863	9 9 1883 9 9 1883 9 9 1883 1 1883 1 1 1883 1 1 1883 1 1 1883 1 1 1883 1 1 1883 1 1 1883 1 1 1883 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	83, 1862 1, 1862 1, 1863 1, 1863 7, 7, 1863 1, 1863 1, 1863 1, 1863 1, 1863 1, 1863
	May Dec. Jose April.	Dec. Dec. Dec. Dec. Dec. Dec. Aug. Aug. Aug. July Aug. July Aug. July Aug. July Aug. July	Dec. Dec. Oct. Oct. Oct. Oct. Oct. Oct. Oct. Oc
Invention or discovery.	Scales, platform, portable Governors Balances Balances Bothiling action, &c., apparatus for Makeling apparatus for felting	Stoves, cook's Stoves, cook's Stoves, cook's Stoves, cook's Stoves, cook's Stove, cook's Store, cook	Treating caoutchous Washing machine Harvesters Plano-forte-action Plongia Button, button-hole Baving machines Lampe, mice chanters for
Besidence.	Brandon, Vt. Portamouth, N. H. Hartford, Conn. Springfaled, Jil. Philadelphia, Ph. Bethel, Conn.	Buffalo, N. Y. Buffalo, N. Y. Buffalo, N. Y. Philadelphia, Pa. Philadelphia, Pa. Philadelphia, Pa. Philadelphia, Pa. Gleveland, Ohlo West Cleveland, Ohlo West Cleveland, Masshall, Mich. Sterling, III. East Cambridge, Mass.	Charlestown, Mass Oxford, Com. Poughkeepsie, N. Y. Troy, N. Y. Saline, Miss Cheliens, Miss Cheliens, Mass Cheliens, Mass Twon, Lowns, Commity, Ph.
Name.	Howe, John, Jr., Frands M. Strong, and Thomas Bost, as- signors to John S. Howell, Ohn S. Howlett, Charles Howlett, P. L. Howen, Itany, assignor to W. F. Warburton Hoyt, W. H. Harry, assignor to W. F. Warburton Hoyt, W. H. Harry, assignor to W. F. Warburton Hoyt, W. H. Harry, assignor to W. F. Warburton Hoyt, W. H. Harry, assignor to W. F. Warburton Wood, Hubbell, Enthell, Design.) Wood, Hubbell, Enthell, Design.) Wood, Hubbell, Harry S. Alfred S. and Thomas H. Wood, (See Wood, Hubbell, Harry S. Alfred S. and Thomas H. Wood. (See Wood, Hubbell, Harry S. Alfred S. and Thomas H. Wood. (See	Hubbell, Heary 8, and Alfred 8. Hubbell, Heary 8, and Alfred 8. Hubbell, Peter. (See Blake, George F., aangror.) Hubbell, William W. Hubbell, William Wheeler Hubbell, William Wheeler Hubbell, William Wheeler Hubber, Francis J. Huber, Francis J. Huber, J., and R. M. McGrath Huber, J., and R. M. McGrath Huber, J., and R. M. McGrath Huber, J., and R. M. McGrath Huber, J., and R. M. McGrath Huber, J., and R. M. McGrath Huber, J., and R. M. McGrath Huber, J., and R. M. McGrath Huber, J. Huber, M. McGrath Huber, J. Huber, M. McGrath Huber, J. Huber, M. McGrath Huber, J. Huber, M. McGrath Huber, J. Huber, M. McGrath Huber, J. Huber, M. McGrath Huber, J. Huber, M. M. M. M. M. M. M. M. M. M. M. M. M.	Hull Irving. (See Dunning, Elijah C., asatgnor.) Hull Jafverna. Hull Folog, administrator, &c. (See Hibbort, James, docased. Extension.) Full Shelden Hull Stephen, assignor to himself and Issae W. White Hulskunp, G. Henry Hunekunp, G. Henry Hunekunp, G. Henry Humphrey, Daniel F. Humphrey, Daniel F. Humphrey, D. W. G. Humphrey, D. W. G. Humphrey, D. W. G. Humphrey, James M. (See Morron, James, J.) Humphrey, James M. (See Morron, James, J.) Humphrey, James M. (See Word, James, J.) Humphrey, James M. (See Word, James, J.) Humphrey, James M. (See Word, James, J.) Humphrey, James M. (See Word, James, J.) Humphrey, James M. (See Word, James, J.) Humphrey, James M. (See Word, James, J.)
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Dec. 1d, 1e62. June 24, 1862. Nov. 4, 1862. Dec. 2, 1862. July 29, 1862. July 22, 1862. July 22, 1862.	May 6, 1862. Oct. 28, 1862. Feb. 11, 1862.	දැඩූ සි	Nov. 8, 1862. Nov. 8, 1862. Nov. 18, 1862. Sept. 16, 1962. Oct. 2, 1862. Oct. 23, 1862. Oct. 23, 1862. April 15, 1862. April 15, 1862.	ដ - ឌុង	April 29, 1862. May 13, 1862. Ang 12, 1862. Ang 12, 1863. Nov. 25, 1863. July 1, 1863. May 6, 1863.
Water-motor Claime-style brakes for Mind wheels brakes for Lumps Cloid, machinery for Alling Bitwest foot Warmers, foot	Compassed, magnetic. Shield, portable, for rifemen. O Swine, to prevent them from rooting, device for cutting.	anging water tubes for cooling the breech of	of preparing f stripping no for realing ne for making	sharpquers for ships and other navigable vessels (Design)	s for upsetting se, evaporator for no crushing. no, hand. no, hand.
Laurellown, Pa. Undan, III. Undan, III. Undan, III. Undan, III. Undan, III. Ortuny, I.A. Ortuny, Man New York, N. Y. New York, N. Y. Danville, Ind. Danville, Ind.	New York, N. Y. New York, N. Y. Spring MIII, III.	El Dorado, Ia. Philadelphia, Pa. Brooklen N V	Brooklyn, N. Y. Brooklyn, N. Y. Brooklyn, N. Y. Brooklyn, N. Y. Jackson Ville, N. Y. Nadhua, N. H. Burlington, N. Y. Cayuga, N. Y. Cayuga, N. Y.		Independence, In. Independence
Hundeker, Danie Hund, Charles A. Hund, Heary W. Hund, Redery, as Hund, School B. Hund, School B. Hund, School B. Hund, Solomon	Hunt, William P. (See Emerson, James, Sasignor.) Hunter, H. W Hunter, Thomas Hunting Charles H., Walt T., and Harvey Platis. (See Mix, Engene M. and James B.: assignors.) Hunting, Charles H., and Horsee A. Smead. (See Smead & Huntley, Charles H., and Horse	Hurs, Joseph Hurs, Joseph Hurs, G. and William Ellmaker. (See Ellmaker & Hurst.) Huse William W	William W William W William W Samuel Daniel E. C. assigno E. Lyman Daniel Daniel Henry G	Lynn, Island S. and John W., assignors to J. S. Hyatt and Oliver Bascom. Hyde. Charles C., and Isaac Edge. (See Edge & Hyde.) Hyde. Edward J. Hyde. James, assignor to Thomas Reech. Hyde. James R., assignor to Charles Eddy & Co. Hyde. James R., assignor to Charles Eddy & Co.	Hyslop, John. (See McKinnell, John, assignor.) Ingalls, Affred Ingalls, Affred Ingalls, Affred Ingalls, Affred Ingalls, Blias T Ingresoll, Bare Ingresoll, Henrietta C Ingresoll, Henrietta C Ingraham, C. D., assignor to binnelf and C. A. & A. Bradwell.
25.55 25.55	35, 136 36, 781 34, 368	35,697	ਖ਼ਫ਼ਫ਼ੑਫ਼	8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	88,88,88,88,88,88,88,88,88,88,88,88,88,

List of patentees of inventions, designs, and reissues, 1862.

No.	Name.	Residence.	Invention or discovery.	Date.
1, 662 36, 980	22	Bristol, Conn. Marion county, Ind.	Clock case (Design)	Sept. 13, 1862. Nov. 18, 1862.
37, 169	ward Dunn. Irving, Beujamin.	New York, N. Y.	Skates for eiv railrads	Dec. 16, 1862 Sept. 2, 1962
8,8 8,2 8,2		Bardstown, III Chicago, III	Lamps, coal-oil	May 6, 1962. Nov. 4, 1962. Inly 22 1962.
35, 277		New York, N. Y.	vesung mechae Projectiles, explosive	
8 78 88	Ferman John Ferman John Isbam Henry	Bosaton, Ps. New Britain, Conn. New Britain, Conn.	Squares, Joiners. Water-meters Water-meters	
, is		Alormenta, N. Z	Engraving machine	
36, P42 37, 834	Jackson, Gam'l Jackson, Peter H	Cheinnati, Ohlo New York, N. Y	Watchmakers' lathes Windla's, vortical	4.4
8 8		New York, N. Y.	Fireplace frame	June 3, 1862. July 29, 1862.
រូក្ខិន្តិ រូក្ខិន្តិ		Mt. Carroll, Ind	Fens, pencils, &c., notders, for Lamps, mode of securing chimneys to	in's
84 35		Buffalo, N. Y. Providence, R. I.	Faucets Projectiles, bot, for ordnance	
. 4. 2		Providence, R. I. Providence, R. I.	Projectiles (Relating Sabots for	April 15,
888	James, Charles I. James, Charles I.	Providence, R. I Stocknort, N. V.	Shells, explosive, for ordnance Shells, explosive, for ordnance	June 10, 1862. Jan. 28, 1862.
37, 206	Janusch Janusch Sherman Jaques, Janus A., and John A. Fanshawe. (See Fanshawo	Paterson, N. J.	Tires for locemotive wheels, machines for rolling	Dec. 16, 1862.
T	-			
34, 577 35, 685	& Jirbie.) Janden, Sannel. Jarry, P. J. Juy. Alired T. et al. (See Slorgan, Juy, Edwards & Tilton.)	Baltimore, Md. Paris, France.	Oll, kerosene, odorized	Mar. 4, 1862. June 24, 1862.

June 10, 1862. Feb. 18, 1862. Rept. 2, 1863. Jun. 14, 1862. Nov. 18, 1862. Dec. 2, 1862. April 8, 1862.	June 24, 1862. July 22, 1862. Sept. 9, 1862. Oct. 21, 1862. Feb. 11, 1862. Dec. 9, 1863.	Mar. 18, 1862. Jan. 28, 1862. June 24, 1862. June 17, 1862.	April 29, 1962. Feb. 25, 1962. June 3, 1963. June 24, 1963. Oot. 21, 1963. Nov. 4, 1963. Nov. 4, 1963. June 13, 1963.	April 15, 1962. June 10, 1963. Feb. 4, 1963. June 10, 1963. Aug. 12, 1963. April 15, 1963. Oct. 28, 1969.	July 29, 1862 Sept. 16, 1862.
Fubrica, water-proof Fubrica, water-proof Boots and alloca, machines for preparing beels for Ores of allo, method of working silictous and other clamine. Furnaces for reasting ores, and for other purposes Bayones, aliding Fire-arms, revolving.	Lega, artificial Uega, artificial Uega, artificial Sega, artificial Biora, cooking. Boata, ice, velocipede Grain bius	Teaning process Clothes wringer Table, froning Warming passenger cars	Ploughs Overs, bakers Propeller, marine Cartridges for fire-arms, anvelopes ofs Cartridges, water-proof, rendering Boots and shoes, wooden soles for Harvesters, orn Fire-arms, breech-loading	Window-sash adjuster Shelis for ordnance Primer, percussion cap for fire-arms Batterisons Batterisons Separator and land, defendive armor for Separator and smut machines	Car-brakes, raliroad. Shoe lasts
Corning, N. Y. Providence, R. I. Brooklyn, N. Y. Brooklyn, N. Y. Elizabeth, N. J. Brizabeth, N. J. Brizabeth, N. Y. Brooklyn, N. Y. New York, N. Y.	Salem, Mass Salem, Mass Salem, Mass Cleveland, Ohlo Brooklyn, N. Y. New York, N. Y.	Kalamazoo county, Mich New York, N. Y New York, N. Y Lynn, Mass	Frederick, Md Brooklyn, N. Y Brooklyn, N. Y Bringfield, Mass Middletown, Conn New York, N. Y Alleghany City, Pa Buffalo, N. Y Cinclinant, Ohio Joliet, III.	Peckakili, N. Y. Postakili, N. Y. Adina, Mo. Addison, N. Y. Sanio, Ohio. Dayton, Ohio.	Utica, N. Y. Homer, N. Y.
Jeffiere, E. A., and J. D. Quackenbush, assignors to J. D. Grackenbush, assignors to J. D. Grackenbush, assignors to J. D. Grackenbush, also and J. D. Grackenbush, also and George H. Cook. Jenkius, James, and George H. Cook. Jenkius, James, and Henry Weissenborn. Jenkiuson, James, and Henry Weissenborn. Jenkiuson, James, assignor to Joe. Merwin and E. P. Bray. Jewett & Root. (See Smand, Walter W., ass'or. Design.) Jewett & Root. (See Smand, Walter W., ass'or. Design.)	B B B	John Jay Josee, assign Josee, assign Joseph B	Onlineon, L. J., and J. L. Crowiey. Core Crowiey & Johnson, Rose Johnson, Win, and Heary Davies Johnson, Willer J. Dow Johnson, Janes J. Johnson, Janes J. Johnson, Janes J. Johnson, Janes J. Johnson, Sannel Johnson, Sannel Johnson, Sannel Johnson, Sannel Johnson, A. Sannel Jones, A. S. Jones, A. S. Jones, A. S. Jones, E. Hobsin, and Sannel Horsloy. (See Horsley &	Jones, Jones, Jones, Jones, George Jones, George Cooke, Horatio Ross. Jones, Horatio Ross. Jones, Horatio Ross. Jones, Ju., assignor to self and W. D. Porter. Jones, John W. (See Winslow, Issae, assignor.) Jones, John W. (See Winslow, Issae, assignor.)	(See Winslow, , assignor to L.
45 45 45 45 45 45 45 45 45 45 45 45 45 4	RRRRRY B RST SEBE	¥¥¥¥ 88±53	88888888888888888888888888888888888888	પ્રસ્ ષ્ટ્રસ્ટ્રસ્ટ્રસ્ટ્રસ્ટ ઇટ્ટરિટ્રસ્ટ્રસ્ટ્ર ઇટ્ટરિટ્રસ્ટ્રસ્ટ	88, 98, 99,

. List of patentees of inventions, designs, and reissues, 1862.

Date.	April 1, 1862. April 1, 1862. Nov. 25, 1862. Aug. 12, 1862. Oct. 28, 1862.	ឌ ស្ងង	فإعوب يم الأ	Aug. 5, 1862. Dec. 9, 1862. Dec. 9, 1862. A pril 1, 1862. June 10, 1862.	ដ	Oct. 21, 1862. Oct. 14, 1862. June 10, 1862.	July 1, 1963. May 20, 1872. Rept. 30, 1972. June 17, 1963.
Invention or discovery.		achines, hub ging machines precch-loading	Conterponates Sept. Chairs, spring-back July Engines, steam 19	tightener for for ort for hanging extinguishing		Mill-stone dresser Separators, grain Oct. Kaliting macalines, burrs for	Tongs, pipe July Seeding machines Ms Property Seeding machines Ms Property Seeding Pendants July Seeding pendants July July Seeding pendants
Residence.			Brooklyn, N. Y. H. H. Wew, Conn. H. Sacramento, Cal. C. Springfield, Mass. E. Springfield, Mass. E. Sw. Britain, Conn. F. F.			New York, N. Y Hardin, Iowa Waterford, N. Y	Union township, N. J. Lancastor, Pa. Lancastor, Pa. Lancastor, Pa. Newburyport, Mass.
Name.		Joslin, Edward, and Dalphon L. Gibbs, assignors to C. B. Rogers & Co. Joslin, Gilman Joslin, William Joslyu, Benjamin F.	Jucket, Edmind B Judin, Theodore D. Judi Allen Judi Allen	Judd, Edward M Judd, Edward M Judd, Edward M Judd, Morton Judd, Oliver S Judd, Oliver G	Judeon, Anron, et al. (See Gallagher, John, assignor.) Judico, Case Schulkenbach, Juo. Baplist, assignor.) Judice, P. See Schulkenbach, Juo. Baplist, assignor.) Judice, P. S. (See Shaw, Thomas, assignor.) Judice, P. S. (See Shaw, Thomas, assignor.) Judice, Rannah Kalbuch, Harraco, and Abraham Andrews. (See Andrews		Kanye, Joseph, and N. K. Wade. (See Wade & Kaye. Relssue.) Revarvy, William and Francis Keery, William and Francis Keery, William and Jacob Barthel Keery, Sanniel, and Jacob Barthel Keery, Sanniel, and Jacob Barthel Keery, Sanniel, And Jacob Barthel Keery, Sanniel, And Jacob Barthel Keery, Genne, Genge A
No.	2,4,8,8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8	35, 25G 36, 25G 35, 218	35688	**************************************	34,208	38, 716 39, 553 563	8 8888 8 12 12 12 12 12 12 12 12 12 12 12 12 12

		COM	OISSIMI	ER	OF	PATENTS.		69
July 22, 1862, July 23, 1862, July 28, 1862, July 26, 16, 1862, July 20, 1862, July 20, 1862, July 15, 1862, Ju	6. 16, 1862. c. 16, 1862.	y 1, 1862, v. 25, 1862, r. 4, 1862, b. 25, 1862	5. 18, 1962. c. 23, 1862. se 10, 1862. se 24, 1862.	. 21, 1862.	s. 25, 1862.	7. 18, 1862. 7. 22, 1862. 7. 11, 1862. 7. 11, 1862. 7. 14, 1862. 7. 21, 1862.	April 1, 1862.	27, 1888 27, 1888 27, 13, 1888 27, 13, 1888 27, 1883 27, 1883 27, 1883 27, 1883
	9 9 9 9 9	July Nov. Mar. Feb.	Feb. June	ğ	Feb	Nov.		May June Mary June July Sept. April June Nov.
Controller register Conding Controller C	Cartridge-tearer for muskets. Bits in stocks, method of securing.	Seeding machines Tools blacksmiths Cultivators Punps	Buckles, manufacture of Harrows Tawel-tops (Design).	Bridges, truss-girders for	Carding-engines, aliver guides for	Projectifies, ordnance, giving rotation to Lamp chimney-cleaner Prod. tay breis Butteries, and bmarine, apparatus for operating Batteries, submarine or floating, mode of operating Lamp-burners	Hat shell-froms	Boots and shoes, beel for Pumps, rotary Pumps, rotary Cars, lees Cars, lees Clothes-wringer Washing machine Washing machine Saw-mills, self-setting bead-block for Water-wheels
Statem Meas Liston, III New York, N. New York, Mass New Bedford, Mass Sechaliburg, Pa Aredia, Ohio Now Haven, Com	Grand Rapids, Mich	Y pallanti, Mich Hannonsburg, Pa Onondaga county, N. Y Schenectady, N. Y	West Haven, Conn Yardioyville, Pa New York, N. Y Thorn township, Obio	Brooklyn, N. Y	Lewiston, Me	Skenbenville, Ohlo Providence, R. I Potutown, Pa Brooklyn, N. Y Brooklyn, N. Y Brooklyn, N. Y New York, N. Y	Warvester, Mass	Milwankle, Wis Milwankle, Wis Phiddelphia, Pa Brooklyn, N. Y Moscow, Is Cirveland, Ohio Cirveland, Ohio Napierville, Ind Pascoag, R. I. Springfald, Ohio
Rethry Avilliam D. and Chas. H. Fiffeld. Keith. Perland, Addipliate and Nathaniel Shophard Keith. Keith. Jermish. Keithg. C. L. Keilogg. Hearry Keilogg. Hearry Keilogg. Hearry Keilogg. Hearry Keilogg. Hearry Keilogg. Hearry Keilogg. Hearry Keilogg. Hearry, and C. O. Groaby. (See Croaby & Keilogg.) Keilogg. Hearry, and C. O. Groaby. (See Croaby & Keilogg.) Keilogg. Hearry, and C. O. Groaby. (See Croaby & Keilogg.)	Kelly, Daniel, assignor to self and Jacob A. Smith.	rrand, Joun, amignor.)	Dayton. (See Dayton & Kelly.) R. Denlela. (See Denlela &	Kendall, Samuel D. Kendall, Samuel D. Kennedy, John H. (See Brown, Charles S., anignor.)	Kent, Hervey	Nent, Joseph (See Brown, J. B., aaagnor.) Kenyon, Martin R. Kenyon, Martin R. Kepner, Solomon Kepner, Hugh Ketcham, Isaac A. Ketcham, Isaac A. Ketcham, Hamo, A. Ketchum, A. C. Ketchum, Hiram, Jr., and Louis F. Theramon. (See Sey-	mon, Edward L, sesignor.) Rettell, John P. Kettler, Edward, and John Elberweiser. (See Elberweis-	ser & Kottler.) Kettler, Frederic Kettler, Frederic Kettler, Frederic Kettler, Frederic Kettler, Trucia L., sasignor to self and Frederick Hooft Kidder, Nelson, assignor to B. F. Linville Kidney, George H. Kidney, G. II. Kimball, John J. Kimball, Nebemiah
84.44.44.44.44.44.44.44.44.44.44.44.44.4	37, 17 37, 196	* * * * * * * * * * * * * * * * * * *	¥¥.1,% \$4.2%	34, 209	34, 508	8448888 8882227 1	34,838	**************************************

List of patentees of unrentions, designs, and reissues, 1862.

Dete.	44. 18. 18. 18. 18. 18. 18. 18. 18. 18. 18	Feb. 18, 1962.		g. 19, 1962. 5. 18, 1962.	13 1988 1988 1988 1988 1988 1988 1988 19
	Feb. Jan. Jan. Jan. Jan. Jan. Jan. Feb.		Mar. Dec.	Aug.	May Feb. June Prob. April Apri
Invention or discovery.	Gas-retoris Evaridges and pred to breech-loading fire-arms Evaridges and distilling, apparatus for Building water proof, mode of making Bacters and wantiators for tens Stores, army Wood bending machine Skirts, skeleton Blootle, metallic, wash or costing for Aerial machines Fire-arm, tompions for Bungs, machines for cutting	Gas-moters, dry	Brick machines Locks and lackbes Gas, illuminating, portable apparatus for manufacturing.	Rooms, dust, connected with machines for picking cotton, &c. Match-safe	Canals, stop-dams for Ovens, bakery Ovens, bakery Cambre in the method of securing. Cambre in the method for moduling cambre in the method for the method for the pipe, cement, modula for pipe, cement, modula for pipe, cement, modula for pipe, cement, machines for modiding Released cement, machines, apparatus for operating Wathing machine With the method for modified for modified for the method for the
Residence.	Commerce, Mich Providence, K. Providence, K. New Spring, Ohlo North Bridgewater, Mass New York, N. Y Lyndon, Wis. New York, N. Y Columbus, Ohlo Motherwell, Sociand Gassaderwell, Sociand Gassaderwell, Sociand Gassaderwell, Sociand Springfield, Mass Gincinnad, Ohlo	New Haven, Conn	Reading, Pa Bradford, Conn New York, N. Y	Lowell, Mass. Philadelphis, Pa.	Medina, N. Y. New York, N. Y. New York, N. Y. Jerney Gipy, N. J. Jerney City, N. J. Jerney City, N. J. Jerney City, N. J. Lorney City, N. Y. Mr. And Conners, N. W. Mr. And Conne
Хаше.	King & Percy. (See Hatfield, Jehn, assignor.) King A. S. King Benedikt King William R. Kingman, John W. Kingman, John W. Kingman, Sannel Kingman, Sannel Kingman, Sannel Kingman, Sannel Kingman, Sannel Kingman, John, assignor to self and Daniel S. Winant Kinning, John, assignor to William Kinniburgh Kinsley, Rodolphins Kinsley, Rodolphins Kinsley, W. A. and D. M. Osborne. (See Denimore, Bron.		Kirk, Henry C. (See Tobias, John C., assignor.) Kirk, Lewis Kirkham, W. S., assignor to Chas. A. Miller Kitchen, George H. Kitc, John L., and Allon Walton. (See Walton & Kitc.)		Kingp, leate. Kingp, leate. Kingp, leate. Kingp, leate. Kingp, leate. Kingh, leate. Kingh, Heary Kingh, J. and Wm. C. Leach. (See Leach & Kiox.) Koch, August Kebler, J. W. and Frederick Rechardt Koch, August Koch, August Kingh, Heary Kingh, J. and Wm. C. Leach. (See Leach & Kiox.) Kingh, J. and Wm. C. Leach. Kingh, J. and Wm. C.
No.	4448444444 87844444444 884444444 88444444	34,465	36, 280 36, 096	36, 219	4444,44444444 23683355322 588222

328	Revolution Charles W Kriefe, Hellinich, and Joseph Reichman. (See Reichman &	Bloomington, III	Supporters and fastemers, sash	Feb. 4.	4, 18 69. 27, 1862.
282	Kritzeb, Jacob Kritzeb, Jacob Kritzeb, Omed M. G. Hogness	Binghamton, N. Y. Albion, Mich. Kroghville, Wis.	Whoels, bubs, &c., securing boxes to Air engine, hot. Vessels, sunken, mode of raising	Sapt.	986
888 853 853	Krotter, Anna Kushber, William, and Henry Beleriein Kulme, Henry		Cloth-dryer. Lamps Steering and propelling apparatus	Mar. 11. Sept. 9. June 24.	2 2 3 2 3 3
25	Kuth, Henry. et al. (See Brecht & Sigesmond, assignors.) La Baw. George W., assignor to himself and Peter F.	New Lotts, N. Y. Jersey City, N. J.	Tobacco pipes Carriages, wagons, &c., springs for		2, 1862. 25, 1862.
96 26	Campbell. Lakew, George W., and Peter F. Campbell. Lacy, John, et al. (See Furst, Bradley & Lacy.) Ladd, Jesse, and Augustine B. Crosby. (See Crosby &	Jersey City, N. J	Carriage springs	Aug. 19,	19, 1862.
37, 233	Lateniere, Oliver. Lahaye, J. J., and J. Milholland. (See Milholland & La-	New York, N. Y.	Boots and shoes.	Des 23,	1962
888 888	naye.) Lake, Ezra B., and Jesse S. Lakin, Paylor D., assignor to himself and Charles Wilder Lamb. Peter.	Absecom, N. J. Hancock, N. H. Cincinnati, Oblo.	Telegraphs, circuit-closers for Yokes, ox Cartracks		1862 1862 1862
	Lambert, Thomas S. assignor to Joseph S. Wright	Peekskill, N. Y. Peekskill, N. Y.	Tournlquet. Garment, mode of constructing.	Jan. 7.	8 2 3
338	Lanbert, Thomas S. sasignor to Henry W. Hunt.	Peekkill, N. Y. Peekkill, N. Y. Pook Lell N. V.	Stoves, camp. Windows, double		196 196 196 196 196 196 196 196 196 196
5.5	Lambert, Thomas S.	Peckskill, N. Y. Prekskill, N. Y.	Bed frames, military and civic		98
3.8	Lambert, Thomas S. La Mothe, B. J. assignor to the La Mothe Life-Preserving	Peekskill, N. Y. Ngw York, N. Y.	Boliers and tea kettles Cart metallic for railroads	Feb.	2001 2001
		New York, N. Y.	Ships and other navigable vessels, metallic framing for		1862
2 8 8 2 2 8 8 2 3 8 2 2	Lampugh, kanc Landis, David.	Peoria, III. Lancaster, Pa	Claw-bars. Bolts, flour, screen for		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Landon, Gardner. (See Gregory, Willia L., assignor.) Lane & Bodley. (See Smith, Samuel R., assignor.) Construction of See Windle Samuel Read assignor.)	mannon to whether the second			
	Land, Thomas, Thomas	San Francisco, Cal	Diggers, potato	Ş.	1862
	Landing, H. B., and H. W. Grenell	Hudson, Mich.	National inactions. Planters, corn.	8	8
888 888	Lapham, Allen Larrabee, William	Glaremont, Iowa.	Steam trap. Winnowers, grain.	A. 8. 5.	2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
	Lasher, Daniel Lathan, B. T. (See Greely, Josiah B., assignor.)	Brooklyn, N. Y.	v asning and wringing machines. Furnace grates		8
35, 305	- : :	San José, Cal. Goshen, Ind.	Tires, apparatus for shrinking. Splints, surgical	Feb. 4, June 17,	4, 1862, 17, 1862,

List of patentees of inventions, designs, and reissues, 1862.

Date.	Feb. 4, 1862. Oct. 28, 1863. April 29, 1863. Sep. 2, 1862. Feb. 18, 1863. June 24, 1862. May 27, 1862.	Aug. 14, 1862. Aug. 19, 1862. Sep. 9, 1862. Oct. 21, 1862. Sep. 16, 1862. Feb. 18, 1862. Jan. 14, 1862.	Aug. 19, 1862. April 29, 1863. May 20, 1863. July 99, 1862. Feb. 4, 1862.	June 3, 1863. April 8, 1863. Dec. 9, 1863. Feb. 4, 1863.
Invention or discovery.	Coal screens Whifferrees, mode of attaching and detaching. Balances, spring. Masaurer, aligh, rotary Horse powers, endless chain Forging apparatus Tires, machines for upsetting. Soparators, grain	Carriage wheels Lubricating compound Lubricating compound Hose reels Fire-arm, breech-loading Frence, field Sugar exporator Churron Merial for abeathing ships Water wheel	Cocks, stop, two-way. Boring seats of buggies, machines for Millstones, balancing Rallroad chairs Charcoal, animal, for refining sugar, revivifying Tobacco holders.	Gun-locks, cover for Fig. 18 The laborate for Constitution of Gas, illuminating, manufacture of Colocks, culendar.
Residence.	Minersville, Pa. Gettysburg, Pa. Gedar Falls, Iowa. Brooklyn, N. Y. Green Island, N. Y. Hartford, Conn. Ann Arbor, Mich. Elmira, N. Y. Knox Corners, N. Y.	Cleveland, Ohio Belleville, III. New York, N. Y. Stevens's Point, Wis. Bloomington, III. Ratine, Wis. Charlestown, Mass. Springfield, Ohio.	Parlilion, N. Y. Clincinnati, Ohio Clincinnati, Ohio Lowell, Mass Paris, France Brooklyn, N. Y.	New York, N. Y. New York, N. Y. New York, N. Y. Briscol, Com. Whitewater, Wis.
. Name.	Laubenstein, Jonas Laughlin, John Lawrence, D. Clinton, assignor to Alfred E. Beach Lawrence, Begur V Lawrence, Richard S Lawrence, Richard S Lawrence, Alecand, Ir. (See Knowlton, R, assignor.) Lawren, Joseph W Learen, William C, and M J, Knox Learen, William C, and M J, Knox Learned, Rilward, and C. P. Dixon. (See Willson, James	G., assignor.) Leavint, Charles Lechuchen, Adam. Lec, Bergiann F., New York Rubbe Lee, James. Leedy, John K. Leee, John K. Lee Ferre, John Le Ferre, John Leefel, James.	Lefferth, John C. (Leitch, Robert. Lemereler, Eugene, Julea, Lemery, George W. Lemern, John Lemuth, William J. Leonard, Ira. Leonard, Samuel, and Lepley, A. H. and Lepley, A. H. and Lepley, A. M. and Lepley, A. M. and Lepley, A. Gare B. Leslie, James Y. Leslie, James Y. Leslie, Games H.	Lemate, F. W., and Lewis Francis. (See Francis & Letterance). Loverich, John B. Levin, Wolliam Levy Mark Lewis, Respans B. Lewis, Respans B.
K.	98,83,93,83,83,83,83,83,83,83,83,83,83,83,83,83	2, 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	382525 382525 382525

Corriege brakes. Oli and far for rendering them more useful for burning June 10, 1863. In lump, duriesting maniliarry, and other purposes, mode of tresting.	Decider Particle Decider Dec	Water-wheels Sept. 9, 1862. Bed, atmospheric, (or air.) and knapssek Oct. 7, 1862. Guns, air. Dec. 16, 1862. Coal-sifters Oct. 14, 1862. Bridges, trust, iron Jan. 14, 1862.	Stores	Netting to windows, mode of applying. Lights, foot, for theatres, mode of constructing and ar- Innging. Dyeing and printing with aniline colors. April 1, 1882. Car wheels, cast metal. April 15, 1882. April 15, 1882.	Shot-hole stopper Skirts, skeleton Composition for manufacture of monidings and other Mar. 25, 1962. Button-boles, mode of making. May 6, 1962.
Iowa City, Iowa. Ruchester, N. Y.	Cleveland, Oblo New York, N. Y New York, N. Y New York, N. Y New York, N. Y New York, N. Y Bug New York, N. Y Waf New York, N. Y Bug New York, N. Y Bug New York, N. Y Bug New York, N. Y Bag Roxbury, Mass	San Francisco, Cal. Eden Township, III. Bed, New York, N. Y. Rochester Coal	Albany, M. Y. Shur Albany, M. Y. Stor Albany, M. Y. Stor	Brooklyn, N. Y. Detroit, Mich. Church, Eng. Dyel Wilmingron, Del. Gar. Wilmingron, Del. Gar. Wilmingron, Del. Gar.	Ulster, Pa. Shot New York, N. Y Skir Boston, Mass. Com Booton, Mass. Butt
Lowin Miles K. Lowin Sylvenier	Libber, William, and John Frice. (See Price & Lowis.) Lighton Perdiamod O. Lighton William A. Lighton William A. Lighton William A. Lighton William A. Lighton William A. Lighton William A. Lighton William A. Lighton William A. Lighton William A. Lighton William A. Lighton William A. Lighton William A. Lighton John	Linder Clarence Linder Clarence Linder Clarence Lindergreen, P. (See Lofrendahl, J., assignor.) Lines William Linville, B. F. (See Kidder, Nelson, assignor.) Linville, J. H., assignor to himself and J. L. Piper. Liquid Quartz Company. (See Vanderburgh, George E., Liquid Quartz Company. (See Vanderburgh, George E.,	Littleffeld, Donnis G. (See Easterly, James, assignor.) Littleffeld, Donnis G. Littleffeld, Donnis G. Littleffeld, Donnis G. Littleffeld, Donnis G. Littleffeld, Donnis G. Littleffeld, Donnis G. Littleffeld, Donnis G. Littleffeld, Donnis G. Littleffeld, Donnis G. Littleffeld, Donnis G. Littleffeld, Donnis G. Littleffeld, Donnis G. Littleffeld, Donnis G. Littleffeld, Donnis G. Littleffeld, Donnis G. Littleffeld, Donnis G. Littleffeld, Littleffel	Livingston, M. M. Lioyd, Gordon W. Lioyd, Nathaniel, and John G. Dale Lobdell, George G. Lobdell, George G.	Lockwood, Lodnund Lockwood, Edmund Lockwood, Gunnad Lockwood, George W., assignor to Horace Carpenter & Co. Lowenberg, Heary Lowenberg, Heary Lowenberg, Heary
44. 85.	and the state of t	36, 415 37, 173 36, 659 34, 183	44,44,44,44,44,44,44,44,44,44,44,44,44,	35,767 36,686 34,972 1,317	**************************************

List of patentees of inventions, designs, and reissues, 1862.

	Name.	Residence.	Invention or discovery.	Date.
logie.	Logan, Sanuel M., and Philo E. Baker Lombært. Herman J London. Wm. E., and Wm. H. Doane. (See Doane & London.)	New Carliale, Ohio Philadelphia, Pa	Roofing, terra-cotts. Rails to railroads, mode of constructing and applying	
g, C	Long, Charles B., assignor to himself, Augustus Rice, and Jonathan Luther.	Worcester, Mass	Ordnance, device for indicating the elevation of	July
28.0	Long, Charles B., assignor to himself, Augustus Rice, and Jonathan Luther	Worcester, Mass	Ordnance, adjustable sight for	Dec. 2, 1862.
6. 3		Leavenworth, Ind.	Ploughs, cutter attachment to	April 8, 1862
18. H	Loug, Robert H	Philadelphia, Pa		
E S	Long, Robert H	Philadelphia, Pa.		Jan 7,
gett	Cong. Samuel N., assignor to the Chatham Lock Company. Congett, Alexis	South Chatham, Mass.	Locks Velocipedes	Aug. 12, 1862
er,	Longyear, Jacob. Loper, Richard F.	Grass Lake, Mich. Philadelphia, Pa.	Boring machine Ships, iron, and other navigable vessels, means of cover-	Feb. 18,
end a	Lord, John M. (See Thomas, John, assignor.) Lorenz, A. (See Core, W. H., assignor. Design.)		ing and repairing.	
renz,	orenz, A., and W. H. Core. (See Headra, Constant, as- signor, Design.)			
, in the second		Duxberry, Mass	Leathering tacks, machines for	Feb. 25, 1862
	Louis, Lafayette, assignor to George A. Prince and Thomse	Buffalo, N. Y	Melodeons	
d a	Stephenson.	V V semestra		
Α,	Low, Andrew J	German Township, Pa.	Seccharine juices, portable apparatus for evaporating.	July 15, 1862.
i e	Lowell Manufacturing Company. (See Ney, Elemir J., as-			
e	Lowell Manufacturing Company. (See Ney, Elemir J., as-			
	signor. Design.) Lowell Manufacturing Company. (See Ney, Elemir J., ag.			
000	signor. Design.)			
200	Rienor. Design.)			
well	Lowell Manufacturing Company. (See Ney, Elemir J., as-			
	ngnor. Design.) Lowell Manufacturing Company. (See Ney, Elemir J., as-			
0	algnor. Design.)			
e e	Lowell Manufacturing Company. (See Ney, Elemir J., as-			
e e	Lowell Manufacturing Company. (See Ney, Elemir J., as-			
well M.	Lowell Manufacturing Company. (See Ney, Elemir J., as-			

(See Noy, Elemir J., as-	(See Ney, Elemir J., as-	(See Noy, Elemir J., as-	(See Ney, Elemir J., as-	(See Ney, Elemir J., 26-	(See Noy, Elemir J., 26-	(See Ney, Elemir J., as-	(See Ney, Elemir J., as-	(See Ney, Elemir J., as-	(See Ney, Elemir J., as-	(See Ney, Elemir J., as-	(See Ney, Elemir J., as-	(See Noy, Elemir J., as-	(See Ney, Elemir J., se-	(See Noy, Elemir J., as-	(See Ney, Elemir J., sa-	(See Ney, Elemir J., 218-	(See Ney, Elemir J., as-	(See Ney, Elemir J., as-	(See Ney, Elemir J., as-	(See Ney, Elemir J., 26-	(See Ney, Elemir J., as-	(See Ney, Elemir J., as-	(See Noy, Elemir J., as-	(See Ney, Elemir J., as-
Company.	Jompany.	Jompany.	Company.	Company.	Company.	Company.	Company.	Company.	Company.	Company.	Company.	Company.	Company.	Company.	Company.	Company.	Company.	Company.	Company.	Company.	Company.	Company.	Company.	Company.
3 4	Lowell Manufacturing Company.	. 3	Lowell Manufacturing Company.	signor. Design.) Lowell Manufacturing Company.	- 3	Lowell Manufacturing Company.	4	- 65	1.5	Lowell Manufacturing Company.	signor. Design.) Lowell Manufacturing Company.	.5	3	2	3	- 10		- 12	2	.00	5	- (0)	- 2	signor. Design.) Lowell Manufacturing Company.

List of patentees of inventions, designs, and reissues, 1862.

No.	Маше.		Renidence.	Invention or discovery.	Date.
	Lowell Manufacturing Company. (See Ney, Elemir J., as-	(See Ney, Elemir J., as-			
_	Lovell Manufacturing Company. (See Ney, Elemir J., as-	See Ney, Elemir J., as-			
		ng Company. (See Ney, Elemir J., as-		•	
	signor. Design.) Lowell Manufacturing Company. See Ney, Elemir J., as-	See Ney, Elemir J., as-			
	signor. Design.) Lowell Manufacturing Company. (See Ney, Elemir J., as-	See Ney, Elemir J., 88-			
	signor. Design.) Lowell Manufacturing Company. (See Ney, Elemir J., as-	(See Ney, Elemir J., as-			
	signor. Design.) Lowell Manufacturing Company. (See Ney, Elemir J., as-	See Ney, Elemir J., as-			
	signor. Design.) Lowell Manufacturing Company. (See Ney, Elemir J., as-	See Ney, Elemir J., as-			
	signor, Design.) Lowell Manufacturing Company. (See Ney, Elemir J., as-	See Ney, Elemir J., as-			
	signor, Design.) Lowell Manufacturing Company. (See Ney, Elemir J., as-	See Ney, Elemir J., as-			
	Rignor. Design.) Lowell Manufacturing Company. (See Ney, Elemir J., as-	See Ney, Elemir J., as-			
	Lowell Manufacturing Company.	og Company. (See Ney, Elemir J., as-			
	_ 7	g Company. (See Ney, Elemir J., as-			
35, 100	signor. Design.)		Seratore Springs N V	Wind mills	Anril 90 1869
	Lowth. M. F., and John S. Rowell. (See Rowell & Lowth.)	(See Rowell & Lowth.)			יייייייייייייייייייייייייייייייייייייי
35, 101	Lowth, M. F., and J.	ohn S. Rowell. (See Rowell & Lowth.) M. Gowde	Peoria III		
24,237	Luckett, E. M.		Philadelphia, Pa.	cleaning mow from	Jan. 28, 1862.
	11	burgh. (See Vosburgh	Bradiord, W.B.		
35, 827	At Ludden. Lune. D. F. and A. P. Trutte I former of Angelow & I meter	/ See Towlor & Insta	Spring Mills, Pa.	Stump-extractor	July 8, 1862.
	(Design.) Luther, Jonathan, et al. (See Long.	Charles B. assirnor.)			
	Luthor, Jonathan, et al. (See Long, Charles B., assignor.)	Charles B., assignor.)	•		
¥.8 85.38	Lyman, Alfred E.				Mar. 25, 1860. Oct. 14, 1800.
<u>8</u>			New York, N. Y.	ting the fibres of wood and	Mar. 4, 1809.
1	Lyman, Arel B		New York, N. Y	Mills, apparatus for concentrating 5cpt, 2, 1809.	Brpt. 2, 1802.

May M7, 1968, Anna May M7, 1968, Anna M7, 1968, Anna M8, 1968, M8, M8, M8, M8, M8, M8, M8, M8, M8, M	Dec. 9, 1962. July 22, 1962. Mar. 4, 1962. Aug. 12, 1962. Feb. 16, 1962. Mar. 18, 1962. Mar. 18, 1963.	Jan. 14, 1862. Nov. 11, 1862. July 15, 1862. Nov. 4, 1862. April 1882. Nov. 18, 1862. Nov. 18, 1862.	May 6, 1862. April 29, 1862. May 27, 1862. Feb. 18, 1963.	Aug. 5, 1862. Feb. 25, 1862
Chilivatora Can, fruit Youth, sataching beds to Bottle stopper Agrated liquids, bottle for Parties and shoes, cork sole for Padioks.	Railroad chairs House preserving Gas compensator Propelier, centering Planter, corn and time spreader combined Sugar, dip pots for refining Harress ruin, device for holding	Stalls for horses. Locks Locks Hydraulic prosess, retainer for Sewing machines, braiding guide for Stoves, cooking. Stoves, ventilating dampers for Stoves. Heaters.	Fire-arms, repeating, Cracifix. Cracifix. Vashing-machine Skirts, hoop.	Sail, fan-thaped. Cheese vats.
Malaga, W. W. W. W. W. W. W. W. W. W. W. W. W.	Mechanicaville, N. Y. Calverton Mills, Md. Jerney City, M. J. Jerney City, N. J. South Salem, Ohlo New York, N. Y. Prekaville, N. Y.	Woburn, Mass. Cincinnati, Ohio St. Louis, Mo. Cincinnati, Ohio Chelses, Mass. Chelses, Mass. Chelses, Mass. Chelses, Mass.	New York, N. Y. Pawtucket, R. I. Milliport, N. Y. Waiertown, N. Y.	New York, N. Y. Udea, N. Y.
The state of the s	muel H., and Robert T. Wilde. (See Wilde & Cohn H. W. S. Y. Case Jones, Nathaniel, assignor.) P. W. assignor to Addison Smith. P. W., assignor to Addison Smith. P. W. M. M. M. M. M. M. M. M. See See See See See See See See See Se	Mackintie Junes W. Machach, McMail Maddoch, McMail Maddoch, Stephen J. Magee, John, assignor to Norton Furnace Company Magee, John, and William J. Towne Magee, John, and William J. Towne Magee, John, and William J. Towne Magee, John, and William J. Towne Magee, John, W. Walker, Chongany Mare John, Cas Walker, George W. assignor to	Maber, Edmund Maker, Nathan P Mallette, George B Mallory, James E, and Gelston Sanford. (See Sanford & Mallory.) Mallory, James E, and Gelston Sanford. (See Sanford & Mallory.)	mes E., and Gelston Sanford. (See Sanford & mes E., and Gelston Sanford. (See Sanford & mes E., and Gelston Sanford. (See Sanford & mes E., and Gelston Sanford. (See Sanford & H. H. Trancis X.
144-444 4 48	94.98 94.98 94.98 94.98 94.98 94.98	35, 85, 85, 85, 85, 85, 85, 85, 85, 85, 8	8, 167 1, 570 87, 4, 276 87, 4	88 88 113 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

List of patentees of inventions, designs, and reissues, 1862.

Date.	June 30, 1962. June 3, 1962. May 27, 1962. June 3, 1962.	Mar. 25, 1962. Mar. 25, 1962. Mar. 25, 1962. Mar. 25, 1963.	Mar. 25, 1962. April 29, 1962. Jan. 7, 1962. July 29, 1962. Sept. 9, 1962.	Mar. 18, 1862. Dec. 2, 1862. Sept. 25, 1862. Oct. 7, 1962. Jan. 7, 1862.	Aug. 19, 1962. Oct. 14, 1962. April 29, 1962. April 22, 1962. Feb. 11, 1962. Mrs. 95, 1469.	့ ရှိချွ	Doc. 23, 1862. Jan. 28, 1862. Nov. 4, 1862.	May 13, 1800.
Invention or discovery.	Paddie-wheel, feathering. Axea, artificial. Pots, tea and coffee	Harvesters Harvesters Harvesters Mowing machines	Be			Pegging boots and shoes, machine for Lamps Stove	Ordnance, to facilitate unapiking, divided went bushing for. Valve, alide, of pressure, relieving.	Cans. proserve. Monuments, construction of.
Betidence.	New York, N. Y. Bellefont, Pa. Syracuse, N. Y. Cromwell, Conn.	Rockford, III Rockford, III Rockford, III Rockford, III	Ashland, Ohio Canton, Mass Vissac, Mich Lawrenceville, Ps. New York, N. Y.	Meriden, Conn. Meriden, Conn. Winchester, III. Hamilton, Canada. New York, N. Y.	Milton, Pa. Rilloury, Mass. West Greenville, Pa. San Francisco, Cal. Lowell, Mass.	Lowell, Mass Wilmington, Del Lancaster, Pa.	New York, N. T. Mound City, III.	New York, N. Y. Gleveland, Ohlo
Хапе.	Manigo, E. M. (See Holter, Juliu, assignor. Design.) Manicy, A. J., et al. (See Jones, Nathanel, assignor.) Mann, Harrey Mann Michael Manning Ldward B. Manning Ldward B. Manning Joseph Ct. (See Bradford, John B., assignor.) Manning, Joseph Ct. (See Bradford, John B., assignor.)	Manning.) Manny, John P. Manny, John P. Manny, John P. Manny, John P. Manny, John P. Manny, Mary (See Holly Salamon II assistance)	Mansfeld, Martin H. Mansfeld, William Jedeclish Morre, and H. H. Mansfeld. Marble, Lensing, sestion to himself and Townsend North March, Henry C., assignor to himself and Henry Sister. Marcher, Robert J.		March, Iwa, jr., and Griggs March, W. W. Marchall, J. Plymton Marchall, Loomis G. Marchall, Loomis G. Marchall, Moses, and Marchall, Moses, and Marchall, Moses, and Marchall, Moses, and Marchall, Moses, and Marchall, Moses	Marshall, Moses, sasignor to S. S. Bucklin Marshall, Samuel. Marshbank, John D., sasignor to himself and William	amin Greez ge P., and	John C. Jefforts. Martin, Janes W., and Martin, John M., seelge
Äo.	35, 697 35, 489 35, 477	4444 851 1951 351	34, 764 34, 103 36, 055 36, 416	3,549 3,549 3,619 3,619 114	**************************************	, 88, 13 87, 87	4, 137 24, 137	35, 27#

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10, 18 02. 04, 18 08.	May 20, 1862.	June 17, 1862.	14, 1862. 27, 1862.	11, 1862.	6, 1862. 26, 1862. 25, 1862. 25, 1862.	1,0,8,8,4,4,6,6,8,7,1,8,6,6,7,1,8,6,6,7,1,8,6,6,8,8,1,8,1,8,1,8,1,8,1,8,1,8,1,8	4, 1862, 18, 1862, 18, 1862,	29 1869 29 1868 29 1868 29 1868 24 1868 26 1869 29 1868 20 1868 20 1868	7, 1862.
June June	May	June	Jan. May	Feb.	May Aug. Feb.	Sept. July Mar. June June June May July July	Feb. Mar. Mar.	July 29, July 29, July 29, July 29, July 29, July 29, June 24, April 8, Sept. 16, Dec. 9,	Jan
Paton and valve rode, packing for	Lamps	Stove, cook's(Design)	Projectiles for fire-arms, casting. Screws, wood, machine for threading.	Ploughs.	Pens, &c., boxes, cases and cards for. Knives, pocket. Shafting, connecting and disconnecting. Hay, machines for stacking.	Boilers, steam. Lamp burners. Lamp branes. Lamp and boiler. Lamp glass deflectors for Raths, douche. Bird cages. Bird cages. Ballets, apparatus for casting. Masta add rigging.	manufacture of emery sticks and manufacture of flexible polishing	Ratan machinery Ratan machinery Ratan machinery Ratan machinery Fire-arma, revolving Cartridges Skate-fastening	Lamps Jan.
Brooklyn, W. Y.	Dorchester, Mass	Philadelphia, Pa	Newport, R. I	Elgin, III	Birmingham, G. B. Northfield, Conn. Providence, R. I. Polo, III.	Philadelphia, Pa. Oquawka, Ill. New York, N. Y Chelsea, Mass Chelsea, Mass Chelsea, Mass Chelsea, Mass Tow York, N. Y Indianapolis, In Y Tompkineville, N. Y	Roxbury, Mass Roxbury, Mass Roxbury, Mass		Poughkeepsie, N. Y
Martin, Michael J. Martin, Rierlek, et al. Martin, Warrick, et al. Martin, Warrick, et al. Martin, Warrick, et al. Martin, Warrick, et al. Martin, Warrick, et al. Martin, Warrick, et al. Martin, Warrick, et al. Martin, Warrick, et al.	- 3	Partine, John, and James Horton, assignors to Stuart &	Mason & Hamilin. (See Wood, George, assignor.) Mason, Benjamin A. avsignor to Sarah J. Mason.	stacht, I. II. & A. C., et al. (See Bull, Thos. C., assignor.) Mason, James R. Mason, Joshua, and J. E. Van Winkle. (See Van Winkle	Macon, Josiah, assignor to E. C. & J. H. Pratt. Macon, Samuel, assignor to Northfield Knife Company. Macon, William. Many, William. Many, P. P., and J. H. Thomas. (See Thomas & Mart.) Mathies, Robert H., and Gordon McKay. (See McKay & Mathies, Robert H., and Gordon McKay.	Mathews, Oavid. Matthews, C. B. Matthews, C. B. Matthews, William H., assignor to Williams & Co. Matthews, William H., assignor to Williams & Company. Matthews, William H., assignor to Union Glass Company. Matthews, Morris. Maxheimer, John. May, George T. May, George T.	May John H. (Ace Forking, A. H., assignor.) Mayuli, Thomas J., assignor to John H. Cheever. Mayall, Thomas J., assignor to John H. Cheever.	saignor to Cyrus Wakefield saignor to Cyrus Wakefield saignor to Cyrus Wakefield und Thomas S. Ray. (See Clevelan	
E a		1, 607	¥,¥ §§	34,371	35, 201 36, 321 34, 512 34, 513	888843888888 20140 2014 2015 2016 2016 2016 2016 2016 2016 2016 2016	34, 309 1, 288 1, 289	88.82.83.98.83.05.05.05.05.05.05.05.05.05.05.05.05.05.	3

List of patentees of inventions, designs, and reissues, 1862.

No		Residence.	Invention or discovery.	Date.
37, 141 36, 418 35, 530 34, 563	EKKKK	Hancock, N. Y. Nathua, N. H. Caa.ton, Obio. New York, N. Y.	Sleigh-brake. Spinning-diers Faucets, weighing Bed for ships and hospitals	Dec. 9, 1862. Sept. 9, 1862. June 10, 1862. Mar. 4, 1862.
35, 380 34, 154 37, 137	Alpine, Edward R. McCabe, Edward R. McCabe, Robert. McCabe, Robert. W. J. Tuderwood Bevan G. Sloper, assignors to C. J. &	Rochester, Iowa Rocktown, Ohlo Houndsditch, London, England	Ordnance, breech-loading Cutters, feed Food, articles of, preserving	May 27, 1862, Jan. 14 1862, Dec. 9, 1862.
88,531 88,310 116 116	McChave, John, et al. McCielland, Robert W McClench, George B McClinton, Hugh	Springfield, III Hollowell, Me Morrow county, Ohlo Milwaukie, Wis	Carriage, wheels, hubs, and journals for Hydraulic-engines, valve for Sorghum juice, apparatus for evaporating and deflecating. Vessels, enemies', apparatus for submarine attack on	June 10, 1862. Feb. 4, 1862. Sept. 16, 1862. Jan. 7, 1862.
37, 174 1, 255	McConnell, William. McCornick, L. J., Wassignors to Cyrus	Philadelphia, Pa. Chicago, Ill.		Dec. 1 Jan.
28.88 98.98 98.98 98.98 98.98	McCormick, L. J., W assignors to Cyrus McCoy, Elisha B McCrenry, J. A McCuen, Nelson	Chicago, Ill. Winsted, Conn. Brooklyn, N. Y. South Potedam, N. Y. Brooklyn, N. Y.	Resping and mowing machines (Relismo) Photographs, &c., roller-press for Blind sists, device for holding Blind sists, device for holding Beying machines	Jan. 7, 1862. Feb. 25, 1862. Nov. 18, 1862. Feb. 25, 1862. Aug. 19, 1862.
44,44,44,44,44,44,44,44,44,44,44,44,44,	facturing Company McUndy, Park & Co. McDaniel, Ira	Salem, Iowa. Middleown, Conn. Middleown, Conn. Brooklyn, N. Y. Brooklyn, N. Y. Philadelphia, Pa. Philadelphia, Pa. Philadelphia, Pa. New York, N. Y. New York, N. Y.	Washing machine ** Stoven, gras Washing machine Washing machine Stove Grates for stoves Grates for stoves Kaptencke, houpital	Feb. 25, 1862. July 1, 1862. July 1, 1862. June 17, 1862. Oct. 14, 1862. June 77, 1762. Oct. 14, 1862. Jan. 7, 1862.
88,99,99 771 86,77 86,73	McFurlan, Honry. (See Butterworth, Joshus H., assignor.) McFurland T. W. McFurlane Alexander McGaffry, Ives W. McGaffry, Ives W. McGaffry, Ives W. McGaffry, Ives W. McGaffry, Ives W. McGaffry, Ives W. McGaffry, Ives W. McGaffry, I. M. untd. J. Hubber. (See Hubber & McGrawh.) McGaffr, I. M. untd. J. Hubber. (See Hubber & McGrawh.)	Ottawa, III. Bouth Gennessoe, Wis. Chicago, III. Chicago,	Saccharine juices, evaporator for Landa, marshy, device for cutting landa, marshy, device for cutting frunters, seed from the separator machines frunts. The seed of the separator machines frunts.	July 29, 1862. April 15, 1862. July 1, 1862. Oct. 26, 1862. Nov. 4, 1863. Frh. 4, 1863.

May 47, 1902. Nov. 11, 1902. Sept. 16, 1903. April 20, 1903. April 20, 1903. April 20, 1903. Dec. 25, 1903. Dec. 25, 1903. Bept. 16, 1903.	संस्थित स	Jan. 7, 1962. July 8, 1962. July 13, 1962. July 10, 1982. July 15, 1968. July 15, 1968. July 8, 1969.	April 8, 1969. Aug. 5, 1969. Aug. 5, 1969. May 20, 1969. May 20, 1969. May 6, 1969. Jun. 14, 1969. Jun. 20, 1969. Jun. 20, 1969. July 22, 1969. July 29, 1969.	May 13, 1962. Nov. 18, 1862. Aug. 18, 1862. Mar. 11, 1862. July 29, 1962. Feb. 25, 1862. April 8, 1862.
Dritters, truss Shales or a property of second seco		Fan, automatio Straw-cuttern Cars for street rallways, running-gear of Beigners for bar-rooms. Motion, converting. Clothes-dryer Pumps	Buttons fastener Buttons Buttons Buttons Buttons Buttons Buttons Buttons Buttons Buttons Buttons Cotton revings, drawing-caus for Harvesters, rakes for Harvesters, rakes for Frequetties for the arms Frequents, rakes for Harvesters, rakes for Harvesters, rakes for Harvesters Buttons Buttons Buttons Buttons Buttons	Rakes, horse Rakes, horse Clobs washing machines Lamps Boots and ahoes, beels of, machines for forming, smooth- ing, and poliahing. Valve silde for steame-engines Ventilators for railroad cars
Rochester, N. Y. Rochester, N. Y. Rochous, Fa. Boston, Mass. Boston, Mass. Boston, Mass. Boston, Mass. Tribuburg, Pa. Pitsburg, Pa.	London, England Maumee City, Obio Troy, N. Y. Jorney City, N. J. Jordan, N. Y. Altone, III	St. Mary, Oblo. Monomenhela City, Pa. Newark, N. J. Eston, Pa. Brooklyn, N. Y. Chesnut Hill, Pa. Sacramento City, Cal.	New York, N. Y. New York, N. Y. New York, N. Y. New York, N. Y. Bettle Creek, Mich. Lowell, Mass. Oshkosh, Wis. Checkosh, D. O. Washington, D. O. Washington, D. O. Washington, D. O. Washington, D. O. Ywashington, D. O.	Mount Pleasant, Pa. Mount Pleasant, Pa. Dayton, Ohlo. Baltimore, Md. Lynn, Mass. Philadelphis, Pa. Worcester, Mass.
Meditine, Ameriti Meditine, Ameriti Meditine, Marchinel, Williame II Meditine, Charles Williams, March Martine, Charles Merkay, Gordon. Merkay, Gordon. Merkay, Gordon, and Robert H. Mathles Merkay, Charles Merkay, Charles Merkay, Charles Merkay, Charles Merkay, Charles Merkay, James Charles Merkay, James Charles Merkay, John, assignor to himself, Alexander and Thos.	nd J. C. Miller Charles M. French (See Head, Smith, masignor.)	McLain, John McLaren, Daniel. (See Brown, Joseph M., sasignor.) McLarenghin, John McNair, Alexander McNair, Alexander McNair, William H McNair, William H McNair, William H McNair, Gordon McNair, Gordon McNair, Gordon McDerson, J. L. McReage, Gordon McDerson, J. L. McReage, Gordon	Ward. Coupier &	
444 44444 555 4556 555 555 555 555 555 555 555 555 555	981 975 975	4 8888888 8 848888	4488448484888 88588888888888	86.95 96.96 96.96 96.95 96.51 96.51 96.51 96.51

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List of patentees of inventions, designs, and reissues, 1862.

Date.	June 10, 1993. May 27, 1993. Stopt. 3, 1992. June 10, 1992. June 10, 1992. June 10, 1992. June 10, 1993. June 10, 1993. Aug. 21, 1993. Jun. 21, 1993.	Mar. 11, 1862. Jan. 14, 1862.	Sept. 16, 1862. Aug. 12, 1862. Sept. 9, 1862. Mar. 18, 1862. Nov. 11, 1862. Feb. 18, 1862.	Dec. 2, 1862. June 10, 1962. Feb. 25, 1862. June 17, 1862. Jan. 26, 1862. Nov. 18, 1862. Nov. 18, 1862.
Invention or discovery.	Warming apparatus, feet. Lamps, lantern Lamps, lantern Lamps, coal-oil Lamps, coal-oil Lamps, coal-oil Lamps, coal-oil oil Leather, mechine for pebbling or embossing Weather-strips for doors Hanges, cooking.	Clothes wringer Bos-lives, comb frames for	Table, extension Tamps, kerosene. Treating perculeum and other olls, to produce a vehicle for paints and variables. Boots and abose. Flough, cultivator. Flough, cultivator. Floor-cloth pattern	Fire-arms, breech-loading Mills, feaming. Vehicles, whosels, construction of Locks, sath Kneys-miching machine. Kneys-miching machine. Kneys-miching machine. Brush, paint.
Residence.	Boston, Mass. Chicago, III. Lymn, Mass. Pulladichhia, Pa. Philadichhia, Pa. Philadichia, Pa. Chelsea, Mass. Chelsea, Mass. Rutland, Vi. Now York, N. Y.	Warren, Obio	Rochester, N. Y. Cliffon, N. Y. Cliffon, N. Y. Now Brunswick, N. J. Lindon Hall, Pa. New York, N. Y.	Greenfield Hill, Comn Roclester, N. Y. Aurora, Ill. Harford, Conn New Haven, Coun Philadelplin, Pa. Brooklyn, N. Y.
Name.	Merrill, J. W., and J. H. Rowe Merrill, R.M. Merrill, R.M. Merrill, Ruths Merrill, W.O.B. Merrill, W.O.B. Merrill, Renjamin, and Frederick M. Gibson. Merrill, Renjamin, Jr. Merrill, P. S. Merrill, P. S. Merrill, P. S. Merrill, P. S. Merrill, P. S. Merrill, P. S. Merrill, P. S. Merrill, P. S. Merrill, P. S. Merrill, P. S. Merrill, Joseph, and E. P. Brry. (See Schult, John, assignor.) Merryll, Joseph, and E. P. Brry. (See Schult, John, assignor.)	nesignor.) Messager, C. Mottodi, Martin Metropolitan Washing Machine Company. (See Balley & Couch, negrons.) Metropolitan Washing Machine Company. (See Balley & Metropolitan Washing Machine Company.)	be ECCE : : EPC	Migeon, Henry. (See Bandelot, Jean Louis, assignor. Relstue.) Rigeon, Henry. (See Bandelot, Jean Louis, assignor. Reference.) Milbank, Irane M. Milbank, Irane M. Miller, Franklin. Miller, Purches. Miller, Purches. Miller, Purches. Miller, Thornas. Miller, Thornas. Miller, Thornas. Miller, T. C., and James McKenzie. (See McKenzie & Miller.) Miller, John C., assignor to welf and Robert D. Cunning.
No.	888888888888 888888888 8888888	34, 639 34, 157	36, 496 36, 192 36, 419 34, 689 36, 909 1, 540	93, 550 96, 550 96, 550 96, 550 96, 550

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Fob. 18, 1662.	June 3, 1862. June 3, 1862. June 3, 1862. Dec. 23, 1862.	Fob. 18, 1962 July 8, 1962 Dec. 2, 1962 Mar. 11, 1962	Mar. 4, 1862. Mar. 18, 1862. June 10, 1862. July 15, 1862.	July 15, 1862. Oct. 14, 1862. Mar. 4, 1862. Jan. 26, 1862. Sept. 23, 1862.	Mar. 4, 1862. Mar. 4, 1862.	Aug. 19, 1862.	June 17, 1862 July 8, 1862 Beet, 2, 1863, Mar. 18, 1863, Aug. 19, 1862, Sept. 2, 1862, Jan. 14, 1862,	Jan. 14, 1962. Feb. 4, 1862. Feb. 4, 1862.	Aug. 19, 1862. Mar. 11, 1862. Mar. 18, 1862. May 13, 1862.
Eliventing machine.	orating, apparatas for	wire for planostrings and other	Purposes, account mode of. Engines, steam, gevernors for (Reissue) Outmal boxes Injector difford's Ordunate, apparatus for casting	Hammers Pumps Pumps To bacco pipes Wagons and aleigha, seels for Essioners, stab.		Spoon shanks(Design)	Bits to braces, securing. Crémance, brocch-louding. Vehicles, brus for. Own trachluns. Over rechuring bone-black Colors, aniline, producing. Bighways, machine for filling wagon-rate on		Engine, rotary Ordinance Vessels, fron-clad. Vessels, fron-clad. Vessels, fron-clad. Vessels, fron-clad. Vessels, fron-clad.
Mulison, N. J.	Canton, Oblo- Canton, Oblo- Canton, Oblo- Chicago, Ill	Paris, Oho Cauton, Ohio Canton, Oho Vionna Austria	Hanovertown, Obio. Roading, Pa. Reading, Pa. Reading, Pa.	Boeton, Mass. Bloomfield, Iows. Tivorton R. I. Danbury, N. H. Hartford, Conn.	Berlin, Prusala	Wallingford, Conn.	West Cheshire, Conn. La Crosse, Wils. Brownsville, Fe. Lancarder, R. Mew York, N. Y. Lyons, France. Lyons, France.	New Haven, Conn. New Haven, Conn. New Haven, Conn. New Haven, Conn.	New Haven, Conn. New York, N. Y. New York, N. Y. New York, N. Y. New York, N. Y.
Miller, Charles A. M., and W. O. Thomps, Co., Thomps & Biller, Shiller, Charles A. Co., Mill, Charles A. Co., Blance, M. and Giner, Shiller, Charles A. Coo Miller, Baller, Back M. M. M., modigitor, Miller, Baller, M. M., Marcy John, J. and Giner, M. M. M., Maller, Edward, Co. Foreign Marcy, John, J. and Giner, M. Coo, Foreign March 1997, Ma	Miller, Jacob. Miller, Jacob. Miller, Jacob. Miller, John Jacob, andignor to self and Ernst Pruselug.	Joseph Lewis, and J Lewis, and J Martin, Jr	Milleolland, J. and J. J. Lahaye Millipolland, James Millsolland, James	Mills, George II, and Jackson M. Hanscom. Mills, James R. and Jackson M. Hanscom. Mills, James R. Mille, Andrew D. Miller, Andrew D. Miller, James T. Miller, James T. Miller, James T. Miller, John A. Miller, John A.	Mittelhaus, John S. (See Powers & Smith, mergnors.) Mix, Engene M., and James E., anignors to Wait T. Hun- tington and Hayev Platta.			Monto, James, and Issachar Frost. (See Frost & Monroc.) Monson, Charles Monson, Charles Monson, Charles Monson, Charles Monson, Charles Monson, Charles Monson, Charles, and Stillman Moore. (See Kirk, Charles)	Moritouch Charles Montgomery, Richard Montgomery, Richard Montgomery, Richard Montgomery Richard Montgomery Pichard
34,440	23.25.25 26.63	48,8,4,4 148,8,2,2	3, 28, 28, 28, 28, 28, 28, 28, 28, 28, 28	88.88.88 88.88.88 88.88.88	34, 586 34, 613	1,631	488 618 488 618 50 50 50 50 50 50 50 50 50 50 50 50 50 5	25 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	00 6 8,44,44,44 75,75,5

List of patentees of inventions, derigns, and reissues, 1862.

Date.	July 23, 1862. Oct. 14, 1862. Oct. 28, 1862. Sopt. 16, 1862. Aug. 5, 1862.	Jan. 7, 1862. Mar. 25, 1862. July 8, 1862. May 6, 1862. April 17, 1862. Aug. 26, 1862.	Nov. 4, 1962. Feb. 18, 1962.	Jan. 14, 1962. April 1, 1862. April 1, 1863. July 1, 1862.	April 22, 1862. April 1, 1862.	Dec. 23, 1862. Dec. 9, 1863. Jan. 7, 1862. Oct. 21, 1862.	June 17, 1862. May 27, 1862.	Aug. 5, 1962. Nov. 26, 1962. May 27, 1962.	July 15, 1802. Oct. 14, 1862. Mar. 4, 1862. Bept. 10, 1462. Jan. 29, 1463.
Invention or discovery.	Coars, Fron Clothes-wringing apparatus. Clothes-wringing apparatus. Clothes-wringing apparatus. Clothes-wringing mode of Clothes-wringing monds, mode of Clothes-wringing movement, application of Clothes-wringing movement, application of Clothes-wringing movement, application of Clothes-wringing movement, application of Clothes-wringing movement, application of Clothes-wringing movement, application of Clothes-wringing movement, application of Clothes-wringing movement, application of Clothes-wringing movement, application of Clothes-wringing movement, application of Clothes-wringing movement, application of Clothes-wringing movement, application of Clothes-wringing movement, application of Clothes-wringing movement, application of Clothes-wringing movement, application of Clothes-wringing movement, application of Clothes-wringing movement, and clothes-wrin		Mowing machines. Traps, rat	Angers, spoke-tenon	Tents, hammock. Telegraphio cables.	continuous sheet of paper. Ma-	breech-loading. drocarbons, apparatus for vaporizing and	burning. Oli carbon, apparatus for gasifying and burning. Scoop and elevator. Wood-bending machines	Walking figures, automatic apparatus for the and pipers, nonline for the forest of the
Residence.	New York, N. Y. Albany, N. Y. Falmord, Me Sallabury, Conn New York, N. Y.		Betolt, Wis	Buffalo, N. Y. Buffalo, N. Y. Aurora, H.	Mount Vernon, Ohio	Mount Pleasant, N. Y. Ellisburg, N. Y. St. Charles, Mo. Farmington, N. H.		Chelses, Mass. New York, N. Y. Cincinnati, Ohio.	Now York, N. Y. Mount Morris, N. Y. Newcontleagner, Tyne, Buginad Chadris Forel, Fu.
Name.	Montgomery, Richard. Montgrand, John O. Mondy, Ghordy, Ghorry, assignor to Richardson, Barnum & Co. Moore, Charles O.	Moore, D., and A. Phillippi. (See Phillippi & Moore.) Moore, Frederick II. Moore, J. O. Moore, J. O. Moore, Joseph, assignor to the Vulcan Iron Works Co. Moore, Joseph, assignor to the Vulcan Iron Works Co. Moore, Lowis	Moore, S. M. Moore, Stillman, and Charles Monson. (See Kirk, Charles, assignor.) Morehouse, Charles R. Morehouse, M. S., and M. D. Hartley. (See Harley & More-	d Wm, Scarlete	Morgan, Chan. 11. (Sze Wilden, Edward 11., asalguer.). Morgan, Geo, W., C. H. Tyler, and John McClave. Morgan, John, Alfred Thomas Jay, Edmund Edwards, and	Morgan, Nethan B. Morgan, Nethan Marley, Oliver W. Morrell, James M. Morrell, Thomas J.	Morfill, Charles Morfill, Oscar F		Morrison Finch II. Morrison II 3. anignor to C. II. Morrison Morrison III. anignor to C. II. Morrison Morrison III. Anignor to C. II. Morrison Morrison II. Anignor to C. II. Morrison Morrison Villant (1)
Ko.	1,88,8,1,8, 88,1,8,101 101 101 101 101 101 101 101 101 101	2,4,2,5,2,4,2,5,2,5,2,5,2,5,2,5,2,5,2,5,	8 3	84.48. 81.88.15 78.81.15	8.2 88	ASER SEAN	3 (A) (A) (A) (A) (A) (A) (A) (A) (A) (A)	38, 102 1, 313	88.88 8.89 8.89 8.89 8.89 8.89 8.89 8.8

Mar. 11, 1802, Mar. 11, 1802, Feb. 4, 1802, May 50, 1869, June 3, 1862, Sept. 9, 1862,	5 ×	July 29, 1862. May 27, 1862. Oct. 28, 1862. Mar. 18, 1862.	June 3 1962. Feb. 26, 1962. May 13, 1962. Jan. 14, 1863. Mar. 11, 1963. Oct. 14, 1962. July 29, 1962.	Aug. 25, 1862, May 20, 1862, July 8, 1862, June 17, 1862, Dec. 23, 1863, July 1, 1862, July 15, 1862,	May 27, 1869.	Mar. 11, 1862. April 1, 1862. Mar. 11, 1862. Mar. 25, 1862. Jan. 7, 1862. Gan. 14, 1862.
Wow ing namblines, track-cleanors in Water-slowstors Flows cooking the Statement of Statements because for Statements pulses, pans for evaporating Recolning and for other purposes, coment for Wathing machine Armor, defensive, naval.		Ventilators for buildings. Washing machine Pumps Ore separator and washer		Critishing over, stamp-leads for Critishing over, stamp-leads for Collecting and extent amode of collecting Sawing shingles and other lumber, machines for Churns Car brakes, railroad Car-brakes, railroad Sawing shindmills		Balls, musket, machines for compressing. Saccharine juices, evaporating pans for Baccharine juices, apparatus for evaporating. (Reissue) Water-closes Windows, &c., metallic blinds for
Notick, Mass. Oosymaan, N. Y. Malone, N. Y. Malone, N. Y. Lockbaven, Pa. Rodyn, N. Y.	Noversink, N. Y	Manchoster, England. Jersey Shore, Pa. St. Paul, Minn New York, N. Y.	Peterboro', N. H. Burlington, Vt. Jorney Cirk, N. J. Cleveland, Ohio. Philadolphia, Pa. New Orleans, La. Pittsburg, Pa.	Methinore, Md. Mew York, M.Y. Bangor, Me. Prattaville, M.Y. South Bond, Ind. Bouth Bond, Ind. Dallastown, Pa. Illon, M.	Lockport, N. T	New York, N. Y. New York, N. Y. Mt. Glued, Ohlo Mt. Glued, Ohlo New York, N. Y. Allany, N. Y.
Morre, Albert W. Morre, Incompany of the Manadeld, Morro & Manadeld.) Most, Myron Most, Arron Most, Arron Most, Arron Most, Arron Most, Arron Most, Monthan Most The Manadeller, Jonathan Most Pataculte Most Pataculte Most Pataculte Most Manadeller Most Manadeller Most Manadeller Most Manadeller Most Manadeller Most Manadeller Most Manadeller Most Manadeller Most Manadeller Most Manadeller Most Most Most Most Most Most Most Most	Mowris, James A. Mowris, James A. Mowris, Samuel. (See Sibley, Bufus, andgnor.)	Muir, Geo. W., assignor to Jesse Albert Locke Muir, L. N., (See Stearns, L. L., assignor.) Mullally, William Muller, Julius J., assignor to Frederick Franck and John	Munion, Alvan. Munion, Jebiel, and Joshus R. Lyon. Munion, Jebiel, and Joshus R. Lyon. Murdotyd, Prancis Murjatroyd, Francis Murjnger, E. S. Murjny, Thomas H. Murny, Charlos A.	Murray, Francis Murray, John B. Murray, Pranklis. Murray, Pranklis. Myora, A. P., Issae Searles, and George W. Spencer. Myora, John Myora, John Myora, John	Myers, Uhi & Co., (See Martin, John M., assignor.) Mynderse, Edward., (See Glapp, M. R., assignor.) Myrdel, I're, and James G. Dow. (See Dow & Myrlek.) Nash, Hiram Nash, James O. and Edeasor D. (See Whitmarth, Heary M., assignor.) Nash, Josephus. (See Tobey, Enoch G., assignor.)	Name, Z. B. B., and G. W. Cook. (See Cook & Nah.) Namon, Joseph, and Robert Briggs, sasignors to Joseph Namon. Neat, Daniel B. Neat, D. B., and H. C. Emery, assignors by several assign- ments to D. B. Neal and George E. House. Neefna, Peter W. Neer, Charles.
44 2888888 522 257888888	8 8 5	18 882 18 882 18 882	8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,	838886	æ	# 3.44

List of patentees of inventions, designs, and reissues, 1862.

Newfould, John A. (See De Gumon & Bardlay, assignors.) Newfould, John A. (See De Gumon & Bardlay, assignors.) Newfould, John A. (See De Gumon & Bardlay, assignors.) Newfould, John A. (See De Gumon & Bardlay, assignors.) Newfould, John A. (See De Gumon & Bardlay, assignors.) Newfould, John A. (See De Gumon & See Preston, Jno. A. assir.) Newfould, Cyris. Newfould, Cyris. Newfould, John A. (See De Gumon & See Hayes.) Newfould, John A. H. (See De Gumon & See Hayes.) Newfould, John A. H. (See De Gumon & See Hayes.) Newfould, John A. H. (See De Gumon & See Hayes.) Newfould, John A. (See Lee & Alden, nealgoors.) Newfould, Orth. Newfould, Orth. Newfould, Orth. New York Rubber Company. (See Lee & Alden, nealgoors.) New York Rubber Company. (See Bleecker, Theophysis. B. assignors.) New York Rubber Company. (See Bleecker, Theophysis. B. assignors.) New York Nutber Railing Company. (See Bleecker, Theophysis. B. assignors.) New York Nutber Railing Company. (See Bleecker, Theophysis. B. assignors.) New York Nutber Company. (See Bleecker, Theophysis. B. assignors.)
Mass. Mass.

22323233	A Mg, 13, 1882, A Mg, 13, 1882, A Mg, 13, 1882, A Mg, 13, 1882, A Mg, 13, 1882, A Mg, 13, 1882, A Mg, 13, 1882, A Mg, 13, 1882, A Mg, 13, 1882, A Mg, 14, 1882, A Mg, 14, 1882, A Mg, 14, 1882, A Mg, 14, 1882, A Mg, 14, 1882, A Mg, 14, 1882, A Mg, 14, 1882, A Mg, 14, 1882, A Mg, 14, 1882, A Mg, 14, 1882, A Mg, 14, 1882, A Mg, 14, 1882, A Mg, 14, 1882, A Mg, 14, 1882, A Mg, 14, 1882, A Mg, 14, 1882, A Mg, 14, 1882, A Mg, 14, 1882, A Mg,	June 3, 1862 Jan. 7, 1862 Sept. 9, 1862 Sept. 9, 1862 April 22, 1863 April 15, 1863	Aug. 13, 1883. April 29, 1882. Doc. 23, 1862. Kar. 35, 1862. April 8, 1863. June 94, 1862.
	Carpet pattern Carpet	Pumps, rotary Separatory, grain Fire-arms, magasine Hedge-trimming device Molive power Jars, fruit, cover for	Elevators, grain, floating. Sted and sleigh runners. Sted and sleigh runners. Paddle wheel. Furnace for roating ores. Paper-folding machine.
Mass. Mass. Mass. Mass. Mass. Mass. Mass.	Lowell Mass Cit Lowell Cit Lowell Cit Lowell Cit Lowell Cit Lowell Cit Cit Lowell Cit Ci	Whestland, Iows. Pr Battle Creek, Mich. Se Limestone, N. Y. Olens, III. He Rutland, Vt. Mr Mt. Washington, Ohio. Ja	Baffalo, N. Y Vernon Springs, Iowa. Rushord, N. Y Sacramento, Cal Middletown, Conn. Pr
Noy. Floured, the rest to the Lowell Manufacturing Company. Noy. Flourid, the rest to the Lowell Manufacturing Company. Noy. Flourid, agent to the Lowell Manufacturing Company. Noy. Sleanidd, the rest to the Lowell Manufacturing Company. Noy. Flouridd, the rest to the Lowell Manufacturing Company. Noy. Elemind, agent to the Lowell Manufacturing Company. Noy. Elemind, agent to the Lowell Manufacturing Company. Noy. Elemind, many to the Lowell Manufacturing Company. Noy. Elemind, many to the Lowell Manufacturing Company.	Ney Elemir J. sas'r to the Lowell Manufacturing Company Ney. Elemir J. sas'r to the Lowell Manufacturing Company	Nichols, G. W. Nichols, James B. G. & D. Shepard Nichols, James B. See Dillon, James, assignor.) Nichols, James B., See Dillon, James, assignor.) Nichols, James B., and Eben A. Sawyer. (See Sawyer & Nichols, William T. Nichols, William T. Nichols, William T. Nichols, William T. Nichols, William T. Nicholson, Heary C. Nicholson, Heary C.	Nimbs, A. B., assignor to self and John C. Clifford Noble, Gorne E. (See Phillips, Hervoy S. assignor.) Noble, John C., and Breeman Brady, Jr. (See Brady & Noble, John C., and Thomas L. Birch. (See Birch & Noble, John C.) Noble, John C. Noble, John C. Noble, John C. Nord, Lewis F. North, John A. Daniel S. and Samuel F. Appleton.
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List of patentees of inventions, designs, and reissues, 1862.

Š.	Name.	Residence.	Invention or discovery.	Date.
¥.¥. 28. 28.	North, Townsend. (See Marble, Lansing, sasignor.) Northfield Kuffe Company. (See Mason, Sannel, assignor.) Northrup, Nelson W. Northrup, Nelson W., and Mills L. Callender. (See Callender & Christop, Northrup, Nelson W., and Mills L. Callender. (See Callender & Northrup.) Northrup, Nelson W., and Mills L. Callender. (See Callender.)	Greene, N. Y	Stores hot-air. Shafting and rods, coupling.	Mar. 25, 1862. Mar. 25, 1862.
88,88 88,78 86,78	`^!!!Ā	Greene, N. Y. Greene, N. Y. Greene, N. Y.	Railroad, chairs and rails Car coupling. Car wheels and car-axles combined.	June 10, 1862. Oct. 21, 1862. Oct. 28, 1862.
8,8,4,8,2,1,8,8,4,1,8,4, 8,8,4,8,2,1,8,8,1,8,4, 1,8,1,8,1,8,1,8,2,1,8,3,1,8,1,8	Norton Furnese Company. (See Magee, John, assignor.) Norton, J. Heary Norton, Josel O. Norton, Marcus P., assignor to soif and Chas. Eddy & Co. Norton, Marcus P. Norton, Marc	Boston, Mass Wilton, Ill. Wilton, Ill. Brackand Troy, N. Y. Troy, N. Y. Troy, N. Y. New York, N. Y. Cincinnati, Ohio Boston, Mass Boston, Mass Boston, Mass Wheeling, Va. Whoeling, Va.	Gas-regulators Harvesters for broom-corn. Splitting stumps of trees, timber, &c., mode of Stamp, hand, for post offices. Envelope, post-mark and cancolling Stamp, post-mark and cancolling Galvanio soles Five arms, breech-loading Five arms, breech-loading Fartilisers Fertilisers Fertilisers Fruit-strainer	June 10, 1882 Port 14, 1882 Par. 14, 1882 Jun. 16, 1882 Doc. 16, 1882 Mar. 11, 1882 May 7, 1882 Noy 4, 1882 Jan. 26, 1882 Jan. 26, 1882 Sept. 9, 1882 Feb. 85, 1882
8848888 8 8848658 E	Ogycet, William, and Gilbert Brooks. (See Parkers Organs, Charles.) Olifara, Charles. Old, Alance. Olds, Alance. Oliver, E. E. Oliver, H. W. Oo, Adam, ausgnor to self and M. S. Clark. Opper, Adolph, et al. (See Fishel, Marks, salgnor.) Opper, Adam, ausgnor to self and M. S. Clark. Opper, Adam, ausgnor to self and M. S. Clark. Opper, Adam, ausgnor to self and M. S. Clark. Opper, Adam, ausgnor to self and M. S. Clark.	London, Great Britain Aurora, III. Pitabura, Pa. Green Oak, Midd. New Haven, N. Y. New Haven, N. Y. New Haven, N. Y. New Haven, N. Y. New Haven, N. Y.	Propuler Car Trucks, grings to Pumps for deep wells Cultivators Penell aleve and eraser, combination of Kilm for drying lumber Stoves, eamp Skirts, skeleton	April 29, 1962. July 29, 1962. Feb. 16, 1962. June 24, 1962. June 24, 1962. July 1, 1962.
36, 060 35, 249	John P., assignor.) Orion Charles N., assignor to self and John Gaudee Orion, Leves A. (See Bryant, James W., selfgror.) Osioon, Leves B.	NOW YORK, N. Y. New Haven, Conn. Chester, N. J.	Lamps, placing reservoirs for Paper, machine for folding. Straw carriers and grain separators	July 20, 1869. May 13, 1869.

	April 29, 1809. Rapt. 5, 1802. July 1, 1802. April 15, 1802. May 13, 1802. May 13, 1802. May 13, 1802.	Nov. 4, 1868. May 16, 1868. Feb. 4, 1868. Feb. 16, 1868. June 17, 1868. Aug. 5, 1868. Oct. 21, 1868. Nov. 16, 1868.	Feb. 18, 1962.	Feb. 18, 1968. Oct. 21, 1968. July 29, 1968. Aug. 19, 1968. Sept. 30, 1962. July 8, 1962.	May 13, 1909.	April 15, 1968. April 15, 1968. April 16, 1969. July 16, 1969. July 16, 1969. April 16, 1969. Mar. 74, 1969. Mar. 74, 1969. Mar. 74, 1969. Mar. 74, 1969. Mar. 74, 1969.	Feb. 4, 1962. Feb. 25, 1962. July 29, 1962.
,	Steam, water, or gan, belance presure regulator for Screen, and Country, and Countr	Bridge Bridge Bridge Groughs, double coupling for Grock-case Glock-case	Clothos-wringer	Stores, operating dampers in. Ioe-cream freezer Cultivators Electrical instruments for medical purposes. Jacks carriage. Steam-generators Coin, counterfast, detectors.	Sowing machines	Store, cook's Gun, repeating Mills, grinding, metallic. Pumps Our-wheels to axies, mode of attacking Pumps Pumps Separators, grain Chrunces for hesting seythes, &c. Chrundeners Elevators, hay Amalgamators for gold and silver	Pitch-forks, horse Lemps. Planters, corn
•	Boston, Mass New York, N. Y. Alchary, N. Y. Brooklyn, N. Y. Brooklyn, N. Y. Springfield, Ohio	MIIIvIII, N. J. Paris, France. Jocksonville, III Mow York, N. Y. Now York, N. Y. Now York, N. Y. Now York, N. Y. Now York, N. Y. Now York, N. Y. Now York, N. Y.	North Bridgewater, Mass	Watertown, N. Y. Watertown, N. Y. Summorfeld, III. Springfield, Mass. Frovidence, R. I. Worcester, Mass.	Brockport, N. Y.	Troy, N. X Lattlestown, Pa. Littlestown, Pa. Littlestown, Pa. Clinton, Mass Roedford, III. Boat Winsted, Com Boat Winsted, Com Generylle, N. Y. Greenville, N. Y.	Oricana, N. Y. Fluabing, N. Y. North Gage, M. Y.
7	ongood, Encoder, Science, Sopolar, State Constant State Constant State Constant William Constant William State Contractor, William Encoder, William Encoder, State Contractor, William Court, Frederick St., matgrar to I. F. Tynon. Otta, Frederick St., matgrar to I. F. Tynon.	Otterson, Gee Drager, John seagnor, John Gee Drager, John Gee Drager, John George, Owen, George B.	Owens, Lane, Dyer & Co. (See Dyer, Elbridge G., aar'r.) Packard, Caleb H.	<u> AAAAAAAA</u>	Asron	Palmer, B. and Henry Warner, (366 Warner & France, Palmer, Darley H. Palmer, Charles H. Palmer, George Palmer, George Palmer, George Henry George Henry Henry L. D. Brimer, John J., and A. Plamondon Palmer, John J., and A. Plamondon Palmer, Wiston. Palmer, Wiston. Palmer, W. A. Miston. Palmer, W. A. and Jos. R. Gill. (See Gill. & Palmer.)	Palmer, W. E., et al. (See dill. Palmer & Wobb.) Palmer, Wm. H., and W. Orunb. Palmer, William J. Parker, & Perkins. (See Perkins, Russell B., assignor.) Parker, Alfred G. Parker, Gharica. (See Savage, Elliot, assignor.)
	88889-1-12 585EF888	8 8 2 1 1 1 1 8 1 1 1 1 1 1 1 1 1 1 1 1	3	¥888888 \$40288 \$400	35, 952		## 8 ## 8

List of patentees of investions, designs, and reissues, 1862.

No.	Name.	Residence.	Invention or discovery.	Date.
R 88	Parker, Harrison, and Jonathan C. Sleeper Parker, Jonathan	Boston, Mass. Biddeford, Mo.	Veneers, machinery for cutting.	
188 188	Parker, Leonari. Parkerst, Stephen R Parmelee, Semeer T	New York, N. Y. New Haven, Conn.	Straw-Cutters & machinery for Pronte-fortest	June 17,
8.8 2.5	Parmelee, Spencer T. Parmenter O O	New Haven, Conn.	Piano-fortes Someta machines for forming	June 94,
36,021 36,476	Parmentor, I. W.	New York, N. Y.	Trunks Roote and shoes muchines for nailing on the soles of	July 29,
8. 5.69	Parrett, Robert P. Parrett, William P.	Cold Spring, N. Y. Boston, Mass.	Ordnance, hooped	May 6, Mar. 18,
8,8,1 1918 1888	Parse, Stiles M. Parsea, Stiles M. Parsons, James, assignor to Deborah, Albert E. and	Newark, N. J. Waterloo, N. Y. Elizabeth, N. J.	Band, elbow-joint. Looms, harness for. Floor-doth pattern.	
35,739	Nathaniel B. Powers. Patric, Jowes, Assignor to himself and Henry Reed.	Victor, N. Y.	Separators, grain	June 24,
36,912 35,831	Patrick, Charles L. (Patterson, Jacob Paul, Almarim B.	Monroe, N. Y. Silver City, Nev. Ter.	Pumps, piston for Amalgamator and ore-mill	Nov. 11, 1862. May 13, 1862.
38,02		Elkhart, Ind.	Grubbing machines	July 29,
36,50 36,50		Cardington, Ohio. Peterboro', N. H.	Churns Baths, vapor	Note Note of the
381 381	Peabody, H. O., Peabody, Rogwell L	Boston, Made. New York, N. Y	Fire-arms, breech-loading	April 15, 1869.
889 859	Pearsall, G. T., and S. Pearse, James N.	Apalechin, N. Y. Harmony, N. Y.	Boring hubs, machine for Horse-powers	Sept. 30,
18.		New York, N. Y. New York, N. Y.	Tobacco pipes	0 6 2 2 3 3 3 3
4 18 18 18 18 18 18 18 18 18 18 18 18 18		Greenfield, Mass. Swanville, Me	Axles, shackle for connecting thills to Press, hay	May 6, 1862.
(왕 (왕 (왕	Peck, A. T.	Scott, N. Y.	Antung-machine needles-	200 100 100 100
34,176	444	Jay, N. Y. Walcott, Vt	Scrapers, earth Vegetable-cutters	Dec. 16, 1862. Aug. 12, 1862.
)()	dtney. John 18. m			
2 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8.	Peebles, N. W. Peniston, A. M. Penn, Worden P., Jac	Brunswick, Ohio. Wellington, Mo Belleville, Ill.	Glothes-wringing machine Beeding muchines Harvesten	Sept. 2, 1962. Jan. 14, 1862. July 8, 1862.
35, 946 36, 525	Fenn, W. F., et al., (See Geliss, Broatus & Penn.) Pennington, John O Pennington, George W.		Potanh, nitrate of from nitrate of soda, manufacture of Pross, hay and listin	July 22, 1962. Sopt. 23, 1862.

April 29, 1809. Oot. 7, 1869. Aug. 5, 1869. April 1, 1862.	Oct. 7, 1862. Dec. 9, 1862.	Sept. 30, 1802. July 8, 1862.	Feb. 25, 1962. Aug. 19, 1962. Aug. 19, 1962. Oct. 7, 1962.	May 13, 1962. Sept. 30, 1962. Anril 22, 1962.	April 22, 1862. April 22, 1862.	Aug. 26, 1862. April 15, 1862.	Nov. 18, 1862. Jan. 28, 1862. July 22, 1862. Aug. 12, 1862.		July 22, 1862. Nov. 25, 1862. Oct. 14, 1862.	April 15, 1962. May 13, 1962. Sept. 2, 1862.	Sept. 16, 1862. Dec. 23, 1862. April 29, 1868.	July 29, 1662. Jun. 7, 1662. May 6, 1962. Doc. 16, 1962.
Cotton, machinery for ginning. Locks Spoons, manihoture of	Ships, compound capstans for(Reissus) Fabric, palm-leaf, manufacture of	Pumps, rotary. Dough underpressure, apparatus for measuring out and				Horse-powers, circuit. Horse-powers, circuit. Shells for ordunnoe			Stave machines. Harness, slide for breast-straps for Digging potatoes, machines for	Casting gas retoris Violins, tail-pleees for Advantagels, pricking, for preventing horses or mules from threesing to breaking formers		Flour, apparatus for filling sacks with Rallroad switches Chair, arm Paniographic engraving machine
Albany, N. Y. Albany, W. W. Clevelle, W. Clevellad, Oblo. Meriden, Conn.	New York, N. Y.	Baldwinsville, N. Y	South Kingston, R. I South Kingston, R. I South Kingston, R. I South Kingston, R. I	Court Augreon, E. I. Chester, Conn. Waterford, N. Y	Newport, N. Y. Newport, N. Y. Newport, N. Y.	Newport, N. Y. Newport, N. Y. Wadsworth, Ohlo.	New York, N. Y Baltmore, Md. Baltmore, Md. Raltmore Md.	Baltimore, Md. Rochdale, England.	Peterboro', N. H. Dellii, N. Y. Carroll, N. H.	Lowell, Mass. Philadelphis, Ps. Holmes county, Ohio.	New York, N. Y. Williamsburg, N. Y. Laporte, Ind.	Marthal, Midharana, Midharana, Midharana, Midharana, N. H. Elizabettport, N. J. Newport, Del. Providence, R. I.
* :::::	::	Perry, Lubiol, and Heary Morse. (See Morse & Perry.) Perry, Ell, assignor to himself and John Boley. Perry, James.	Perry, John G. Perry, John G. Perry, John G. Perry, John G.	to himself and Ephraim H. Bender.	to Charles H. A. Cartor	Perry, Stuart, assignor to Charles II. A. Carter. Perry, Stuart, assignor to Charles II. A. Carter. Prefer, Christian	or to himself and Robert or to himself and Alfred		Petters G. L. Ges Adams, L. J., assignor.) Pettersgill, Ass., Jr. Pettersgill, Dexter Pettingill, Johnse K., and William G. Warden. (See Warden		Phelps, Charles II Phelps, George M Phelps, John	Philippa, William M. Philippook, Josiah C. Philippi, A., and D. Moore. Philipp, William G. Philipa, Benjamin L.
88 88 8. 80 80 83 80 80 80 80 80 80 80 80 80 80 80 80 80 8	1,345	88.88 88.88	. 8 8 8 8 8 8 8 8 8 8 8	3388	888	555	2888	18 8 18 8	8.50 86.00 86.00	SAR SAR SAR Digitize	- /	1008 88.84.12 88.82127 88.82127

List of patentees of inventions, designs, and reissues, 1862.

ě	Name	Residence	Invantion or discovery.	Date.
T				
동 흃	Phillips, George B., assignor to John B. Crockett. Phillips, Hervey S., assignor to himself and Geo. E. Noble. Pullips, J. W., and Jeseph E. Connelly &	Nowark, N. J. Wortfield, Mass	Wrenches Fasteners, sash	June 24, 1862. June 3, 1862.
3	Phillips.) Phineas, Myer	New York, N. Y.	Inkstand (Design)	Aug. 19, 1862.
188	Pick, Edwand, and John Allen. (See Allen & Pick.) Pickering, Thomas R. Pieres, A. H. and F. Hollen. (See Hollen & Pieres.)	New York, N. Y		Oct. 7, 1862.
88	Pierce, Carlos. (See Hawse, Behjamin B., assignor.) Briton, Edward W. J. Clark, assignors to W. J. Clark S	Brighton, Mass. Southington, Conn.	Buckles Cot, soldiers	April 22, 1862. Jan. 7, 1862.
35,388 34,110 34,447	Parce, Franklin B. Plerce, Hoel C. Plerce, William H.	Brockport, N. Y. Homer, N. Y. East Cambridge, Mass.	Pumps, rotary. Churus Lanterna, guarda for	May 27, 1862. April 29, 1862. Feb. 18, 1862.
	Percy, William P. (See Vanstone, Sannel, saugnor.), Petrcy, Banes. Pierpont, William.	Bloomfield, N. J.	Paper pulp, washers for Horse-powers.	Jan. 21, Dec. 16,
378	Pinentel, J. A., and William H. Shute. Pinkham, C. W. Pinkham, C. W. Pinkham Annan, D.			
	Piper, C. A., et al. (See Shaw, Estabrooks & Piper.) Piper, Bloch, and George Collins. (See Collins & Piper.) Plorer. Enoch.	Candan Ma	Descrete animal ded vacetable internes annantius for	Aug. 5,
	Piper, John L. (See Linville, J. H., assignor.) Piper, John W. (See Evowne, Edward, assignor.) Pitkin, A. P. Pitt, William Jones	Hartford, Com. Middletown, Com.		Mar. S
126	Pitts, John B., and Jas. Brayley. (See Gordon, Alexander, assumer.) Place, William H., sasignor to himself and George Harward. Planondon, A., and John J. Palmer. (See Palmer &	New York, N. Y.	Blast-gemerator	Feb. 4, 1862.
8885	or to himself and Ruf liam Richardson			Nov. 18, 1963. June 17, 1962. April 15, 1963. Oct. 21, 1963.
98	Platta, Harvey, and Vullan Kodardon. Platta, Harvey, and Walt, T. Huntington. (See Mix, Filmpton, Junes E., sasignors.) Plants, Order E., and B. F. Skinner. (See Skinner & Flantsmey, A. Fr., and B. F. Skinner. (See Skinner & Flantsmey, A. Fr., and B. F. Skinner.	Oldham, Great Fritain		Kept. E.

2	Pogue. Wilson T. amigpor to Goorges Holy	Vienna, Ind	Wagon wheel	Fob.	MS, 186	gi
		Correctle N. T.	wagon, mode or the machinery is boing re-	Tann	3. 1868	
18 2	Poltovin Alphoneo I. amirnor to Leopold Eldlitz		Photography to attach	0et 88	1900	
3.13	Pollard Charles F		Literal bloom for	Deg.	100	~ .
ž	Pollock David and John		Tooth, artificial	Yağı 7		٠.
ලි ක්	Pomerov W R		Flanters, corn	Apı	BO.	٠.
8 50	Pomerov, W. R.		Cartridges	Aug.		٠.
સ જ	Pond, Ladus W	Woroester, Mass	Fire-arms, revolving		7007	_
	Pond, Lucius W. (See Vickers, John II., assignor.)			-		_
	Pond, Martin W	Elyria, Ohlo	Buckle, harnest		,	٠.
8 8 8	Pond, Mosex		Stoved	7		٠.
32	Pond, Moses.	Non-Von- Walt	Foundation on F. American		2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	٠.
Š	Pool Thomas	Thursday Dis	Clather with the			4.
}	Pope G. G. and R. P. Sloeum. (See Boynton G. R. sas'r.)					
	Popper, Leo, et al. (See Fishel, Marks, amernor.)					
86 267	Poppy, G. A., and C. H. Colgrove.	Rochester, Ohlo	Water elevators	ğ	28, 1862	_
ਵ ਨ	Port, Henry	New York, N. Y.	Casting pumps, metallic moulds for	Ķ.	3, 1888 2007	-4
Š, S	Porter, Charles B.	Ann Arbor, Mich	Chloroform, apparatus for inhaling	K	ε. 88	-4
	Porter, John H. and Robert. (See Webster, James, aserr.)		1			
8	Porter, Kobert	Philadelphia, Penn	Can, sheet metal, for oils, varnish, &c	ž.	2, 1862 2, 1862	_4
	Porter, Robert B. (See Peters, William, aenignor.)					
	Porter, W. D. (See Jones, J. L., aungnor.)					
90	Post, E. J. (See Cumming, Issae, angror.)		Same to the state of the same of the same and the same of the same	1	9	
	Does Grander Com	Chicago, IV. d.	A -los and marker for any planing macaine			
3,5		Coldago, Ill.	Axios and resches for velucion	Tale.	11,1002	٠.
	Potter Louis et al	MOW I OUR, IN I			e india	æ.
6	Potter N Z	Majortown III	Suesa avanorator	Serie S	360	-
2	Potter R T W	Scott N V	Plongs erapoi avoi	_	, z	
88	Potta George, american to self. Jos., 1Vm., A., and J. R. Potta.	Goenntown, Penn	Washing machine	June 10.	180	
88	Powe, Lewis, assignor to Park, McCurdy & Co.	Pittsburg. Penn	Copper, alseet, manufacture of	_	1962	
	Powell, James H. (See Mackinney, Engene C., assignor.)					
S S	Power, John, and A. J. Bailey, ass'rs to Peter Holmes	Charlestown, Mass	Cork stoppers for bottles and other vessels, machine for	May 22	20, 19 09	
900			cutting.	,	9	
3	Powers Deboreh Albert E and Mathemal B / See Determined	Jacob Day W 18	Drill, grain	MOV. 10, 100%	, 10gg	
)					
34, 186	Powers, John, and E. M. Smith, andgnors to John S.	New York, N. Y.	Harvesters	, de la	14, 1962,	. •
		•				
% St	Powers, N. B.	Lansingburg, N. Y	Composition for sixing for use in the manufacture of floor	# d	96, 186g.	
707	0 7 2		cloths, &c.	2	8	_
5	Powers, In. D.	Daningourg, N. Y	Composition for sixing and surrening noor closus, ecc	5,5	100	
\$	Prall, William E., assignor to self. Henry Eastman, and	Mainville Ohio	Sacharine injoe. evanoratine nana for	P. G.	18, 1869	•
	Warren A. Witham.					
	Prall, William E., and Lewis J. Whitcomb. (See Whit-					
	Como & Frail.) Pratt. Charles et al. (See Drimmond James W. and P.)					
37,943		Pratt's Hollow, N. W.	Boot-crimping machine	Dec. 82	1868	
	Pratt, E. C. and J. H. (See Mason Josiah, assignor.)					

List of patentees of inventions, designs, and reissues, 1862.

No.	Матье,	Residence.	Invention or discovery.	Date.
35, 473 36, 473 36, 624 36, 624	Pratt. E. L., assignor to John B. Collin Pratt. Fruncis A. Pratt. George. Pratt. H. T. Pratt. Pascal P. (See Townsend, John F.)	Philadelphia, Ponn Harford, Coon West Roxbury, Mass Fleebburg, Mass	Sewing machine, thread tension of Lathes, tool-rest for turning Coal-sifters Chairs, seats and backs for	Ap'l 29, 1862. Sept. 16, 1862. June 17, 1862. July 29, 1862.
36, 967	E E	New York, N. Y.	Now York, N. Y	Nov. 18, 1862.
8, 38 186	usugnor.) Prescott Joseph B Preston, John A., assignor to the New England Glass	Waterford, N. Y. Boston, Mass	Cannon, breeth-loading	Jen. 28, 1962. Aug. 5, 1862.
36, 795 34, 264	Company Price, John, and William Lewis Price, Thomas J Price, George A., and Thomas Stephenson. (See Louis	Danville, Penn Industry, Ill	Rairved rails, piles for. Saccharine and other juices, construction of evaporating pans for.	Oct. 28, 1862. Jan. 28, 1862.
35, 111	Princip. Lymna B. Princip. John Jacob. sasienor.)	Litchfield, Conn	Mills, flouring, cups for elevators for	Ap'l 29, 1862.
35, 542 36, 548	Pryibil Paul Pryibil, Paul, assignor to self and George Schelffele	New York, N. Y. New York, N. Y.		
38,383	Puckett, Calob G. Puistenne, H. J. M.	Cerro Gordo, Ind		Sept. 2, 1862. Mar. 4, 1862.
888 888	Fulto, Mary Jane Putnam, Abel, Jr.	Cheimati, Ono		June 24, 1862. Now. 11, 1862.
3,59	Putnam, George W	Smithfield N. Y.		May 13, 1862.
3888 8888	Putnam, H. W. Putnam, H. W. Putnam, H. W. Putnam, H. W. Putnam, H. W.	Cleveland, Ohio Cleveland, Ohio		Sept. 16, 1862. Sept. 23, 1862.
68	Pulnam Machine Company. (See Burleigh, Charles, seet.) Pulnam, Silas B Pulnam, Silas S	Dercherter, Mass		
5	Putnam, Slias 8 Putnam, Stephen, and Simoon Grover. (See Grover &	Dorchester, Mass	Horseshoes, machines for making nails for	Dec. 9, 1862.
37, 198	Guackenbrah, J. D., and E. A. Jeffery. (See Jeffery & Quackenbrah.) Quan. William, assignor to self, William N. Taylor, A. B. Wetmore, and Charler C. Lathrop. Olimby: David S. and David St. to. Colour Steady.	Philadelphis, Penn	Ores of gold, aliver, copper, &c., smelting Dec. 16, 1862.	Dec. 16, 1862.
98.48 94.48 162.18	R. merimor.) Quim. Abrilan Ruce, John L.	New York, N. Y Norwich, N. Y Norwich, N. Y Fort Wahington, Wig	Distilling petroleum and other olis, apparatus for Water-clowing for Shaffing mode of sustaining and protecting coupling of	Bept. 16, 1962. July 15, 1962. April 15, 1962.

Aug. 12, 1602. May 13, 1862. Jan. 7, 1862. June 3, 1862. Aug. 12, 1862. Aug. 13, 1862.	Oct. 14, 1862, Mar. 18, 1862, Mar. 18, 1862, Mary C, 1862, Mary C, 1862, Mary C, 1862, Mary C, 18, 1862, Mary C, 18, 1862, Mary C, 18, 1862, Mary C, 18, 1862, Mary C, 18, 1862, Mary C, 18, 1862, Mary C, 18, 1862, Mary C, 18, 1862, Mary C, 18, 1862, Mary C, 1862, Mary	June 17, 1862. June 3, 1863. Jun. 21, 1862. Jun. 28, 1862. April 15, 1862.	Dec. 23, 1962.	Aug. 5, 1962. Nov. 11, 1962. April 8, 1862.	Aug. 19, 1962. July 22, 1962. Mar. 11, 1962. Dec. 16, 1962.	Sept. 2, 1862. Nov. 4, 1862. June 3, 1862.	May 20, 1902.
Venerite Ven	Type cases, bottom for extracting. Oil, tailow, &c., mode of extracting. Relating. Album case Desk, school Stove, cook.	Store, cook Stump, stractor Harvester Type-setting machine.	North Adams, Mass Umbrellas	Budder Pitchforks, horse Lamps	Spinning rolls, covering. Wenches, pipe. Beans, machines for cleaning and assorting. Envelope machines, counting stackment for	Lamp burners Pendis. Tree protectors.	Bottles, apparatus for corking.
Munchestor, England. Norwich, Grest Britain. Winks Middlown, Penn. Wilming Mollown, Yen. Porlison, N. Y. Perinson, N. Y. Millburn, N. J.	Belleville, Ohio. Now York, N. Y. New York, N. Y. Now York, N. Y. Madison, Ind. Albany, N. Y.	Albany, N. Y. Little Frairie, Mich Baltimore, Md. Circleville, Ohio Boston, Mass	North Adams, Mass	Brooklyn, N. Y. Venice, N. Y. Franklinville, N. Y.	Boston, Mass. Brooklyn, N. Y. Brockport, N. Y. Hudson, N. J.	Pittsburg, Penn New York, N. Y Turner, Maine	
	Randall, Sameel. (Randall, Win. M., a Randell, A., asalgnor Randell, A., asalgnor Rankin, Charles E. Rankin, James S. Ransom, Samuel H. Ransom, Samuel H. Ransom, S. H., & Co.	Ransom, S. H., & Co. (Set Smith Islanc, assignor.) Ransom, Wm. and A. E. Teal. (See Teal & Ransom.) Rathbone, John F. Rawman, Charles W Ray, B. Ray, D. Brainerd. Ray, Jan. M. (See Redstone, John H., and Albert, E., assira.)	ARS, Tames M. (See Recaione, John H., and Albert E., 225 Th.) Ray, Thomas II. Ray, Thomas S., and Jonathan Maybew. (See Cleveland.	S. E., assignor.) Raymond, John C Raymond, Squire. Raymond, Timothy.	Four, U. J., and A. R. Buffuer. Read.) Read, Henry F. Read A. Taylor. Read, Resolved. Read, Resolved. Read, Resolved. Read, Resolved.	Rebbook, F. J., and E. M. Daries Reckendorfer, Joseph. Reckendorfer, Joseph. Becord, Homer B. Reckeldorfer, Joseph. Reckeldorfer, Joseph. Reckeldorfer, Junes, and J. S. and T. B. Atterbury. (See Al-	Reddick, James and J. B., and T. B. Atterbury. (See Atterbury.) Reddick, & Atterbury.) Roddlek, James, and J. B., and T. B. Atterbury. (See Atterbury.) Reddick, James, and J. B., and T. B. Atterbury. (See Atterbury.) Reddick, James, and J. B., and T. B. Atterbury. (See Atterbury.) Reddick, James, and J. B., and T. B. Atterbury. (See Atterbury.) Reddick, Itary.
25.25.25.25.25.25.25.25.25.25.25.25.25.2	82.182.1 86853	3,470 34,215 34,225 34,963	37, 243	36, 190 35, 915 34, 904	36, 257 35, 950 34, 645 37, 139	86,85 57,854 171	88 1871

List of patentees of inventions, designs, and reissues, 1862.

ğ	Name.	Renidence.	Invention or discovery.	Date.
36,258	Redstone, John H. and Albert E., sasignors to themselves	Indianspolis, Ind.	Harvestern	Aug. 19, 1862.
35, 892	Ř	Marion, Iows.	Beehlve	Jaly
8 8 8 8		Independence, Iowa	Whiffletrees, fastening for securing traces to	July 29, 1862
35, 389	Reed, George P.		Watch escapements	É
;	Bood			
8 8 8 8		St. Louis, Mo.	Composition for cleaning painted woodwork, stone, &c Here elected	Sep. 2, 1862.
35, 950			Evelet machines	
200	Reeder, Isane D., et			
88 83	Rees, Ellas. Reese, Adam R.		Tongs, blacksmiths'	May 13, 1862.
3 8 8	Reese, Adam R	Phillipsburg, N. J		
2, 54 2, 54 2, 54 2, 54 3, 54 3, 54 4, 54 56 5, 54 5,	Ketwe, Jacob.	Pittsburg, Penn.		
35				
은 동 동	Reaves, Samuel J.			
91,100		Fuladelpila, Fean	Metal-wrought cannons, nyuraulic pumps, e.c., iagora ior.	
8 8 8 8	Reichman, Christian, assignor to Gustav Wedekind.		Lamp shades, clasps for	19 to
96,57	Reichman, Charles H.	New York, N. Y.	Valve, governor	Sept. 30,
	Beichardt, Frederick, and J. W. Kochler. (See Kochler & Reichardt.)			•
35,953		Shippensburg, Penn	Bolts, flour	July 22,
86. 189. 189. 189.	_	Van Wert, Ohlo		Aug. 12, 1869.
1,338				9 9 9 9 9
			(Relatne.) Aniline, red dye from(Relatne)	Dec. 9,
સ્ દ	Roqua, E. B.	Jersey City, N. J.	Lamp	May 6, 1862.
	Requa, J., and W. Billinghurst, (See Billinghurst & Requa.)	Jeres City, M. J	Liking Duracia	
	Roury, J. 11., and			
31, 554		Boston, Mast	Boston, Mass Casting metals, preparing metallis monids for Feb.	Feb. 25, 1802.
31,077	Reynolds, George 11	N A Arroy Brown	Droft of street conferming	Dec. 2, 1869.
36, 520	mater. Reynolds, Rensselse			Bopt

13, 1843. 24, 1843. 11, 1843. 11, 1843. 9, 1863. 9, 1863. 13, 1863.	8, 1869.	27, 1862 27, 1862 27, 1862 21, 1862 2, 1862 3, 1863	94, 18fg.	4, 1962. 4, 1863.	10, 18 69. 23, 18 69. 3, 18 69.	11, 1863. 17, 1863. 14, 1863.	15, 19 62.	85, 1960 16, 1860	16, 1962. 6, 1962.	July 1, 1862. April 15, 1862. Dec. 9, 1863. Oct. 721, 1862. May 99, 1869.	
Nov.	Sept	May Net Cott	Jupe	Nov. Mar.	June June	Nov. June Oct.	July	Mer. Sopt.	Sept.	April Dest.	
Sporting mechines, power Froms Purps Clothes wringer Clothes wringer Clothes wringer Wringing machine Warps, process of sixing, yarra for	Axles, attaching thills to	Ordnance, breech loading Sawa, seroll, guide and support for Suw stocks, seroll Saw mills, seroll Ourtain fatures Ourtain fatures	Cushions, head, to prevent sun-stroke	Valves, alide, balance.	- 	Azles, coupling thills Corn shellers. Stump pullers	Millstones, machines for dressing		Ships and other navigable vessels, sails for. Valve, cut-off.	Horse power Lamps, coal-oil Lamps, terroses, or coal-oil Ordunes, operating.	
Bulatol, R. f. M. M. M. M. M. M. M. M. M. M. M. M. M.	Hastings, N. X	Cambridgeport, Mass. Columbus, Ohio Columbus, Ohio Columbus, Ohio Columbus, Ohio Mally acake, Wise	Now ton, Mass	Springfield, Mass	Sherman, N. Y. Sherman, N. Y. Gloucester, Mass.	Byborry, Pa. Rochestar, N. Y. Cleveland, Ohlo.	Leckport, N. Y	Boston, Mass. New Bedford, Mass.	Now Bedford, Mass. Hydeville, Vt.	Almont, Mich. Richmond, Ind. Richmond, Ind. Boyton, Maga. Milwankif, Wis.	
	RICO, Mugusta, et et. (See Long, Unavies B., sasignors.) Rico, Charles L., (See Westlake, William, assignor.)	Rice, T. Com. Com. Linear, Emiliares, Establish Com. Richards, John Richards, John Richards, John Richards, T. Cr.	Richards, Walter D. (See Griffin, Caleb H., assignor.) Richards, William H. Richardson, Barnum & Co. (See Mooers, Henry, assignor.) Releares	Richardson, George W., (assignor to himself and George	Richardson, M. A. Richardson, M. A. Richardson, M. A. Richardson, Nathan Richardson, Nathan	W. sessgood, Nethaniel Richardson, Nethaniel Richardson, Samuel Richardson, S. H. Richardson, William, and John Platt, (See Platt & Richardson, Richardson, William, and John Platt, (See Platt & Richardson, Richardson, William, and John Platt.	Jam	8	Ricketson, Barton Ridor, A. K. Pidar, Proce (S. Backbard, William University)		•
444444 24	15.+ . 88. 89.	සිසිසිසිසි ක්ස්ස්ස්ක් Doc. 54—	. 25, 707	36,857 34,614	સ ષ્ટ્રશ્ 28 2	æ 89 80 179	88 88	% 36,483	36, 176 36, 176	NYPSY S215	L

Bist of protoners of inventions, deligns, and returns, 1002.

No.	Name.	Besidence.	Invention or discovery.	Date.
36, 421		Milwaukle, Wig.	Padlocks	Sept. 9, 1963.
26,267	Valentine. (See Valentine & Ridout.)	New York, N. Y.	Harvesters, gnard fingers for	Jan. 28, 1969.
8 8 8 8 8 8 8	Riggs, M. B. Riley, John Matthews	New York, N. Y. Nework, N. J.	Harvesters, guard ingers for	Nov. 25, 1862
34,525		Greenfield, Ind	Cars, railroad, and locomotive, mode of preventing jar- ring and lotting of.	
36, 731	Rick, L. M. T. Ripley, Ezra, and N. S. Vedder. (See Vedder & Ripley.	Paris, France	Soap, manufacture of	Oct 21, 1963.
	Design.)		The state of the s	Nov. 4 1969.
8 6	Rippon, William F.	Providence, R. L. Monnt Holly, N. J.	Projectile, explosive, for ordinance	Dec. 2, 1862.
8 1	Ritchie, Edward S.	Brookline, Mass.	Compasses, mariners	Sept
3 4	Ritner, Michael	Vincennes, Ind	Projectiles of riffed ordnance, sabot lot	
197 791	Dittor Andrew 1	Debuga N T	Deak writing	July 1, 1962.
36	Rix Alfred	San Francisco, Cal.	Latcher, door	
36, 797		Elizabethport, N. J.	Valves, slide, of steam-engines	Oct. 28, 1862.
37, 846	_	Chicago, Ill.	Corn-thellers	
34, 647	Robbins, Elisha	Milford, Mass	Looms, picker motion for	
		Milford, Mars.	Looms	May 57, 1969
31	Lobbing Eliaba.	Millord, Make.	Looms, picker stan for	May 6 1862
3.5		Hartford Com	Tobacco boxes	May
33	Roberts, B. S.	United States army	ch-loading	Sept
36, 859		Three Rivers, Mich	Cultivators	NOA.
88	_	Three Rivers, Mich	:	Now 95, 1869
20,5	Loberts, Cyrus.	Libreo Kivers, Mich.	Steam man thermometrical	
88		Sulem, Mich.	Preserving fruit and vegetables, mode of	June
36, 370	_	Cleveland, Ohio	Horseshoes, machines for making	Sept
हें ह		Cleveland, Ohio		Apr
36	Roberts, William W.	Hartford, Conn.	Burial case	A 16.
120		Harriord, Conn.	Vocately antique	
18		Now Vork N. V.	Roofing, fabrica for	
1,065	_	New York, N. Y.	Bottle(Design)	Oct. 22, 1882.
8		Boston, Mass.	Lamps	And 22, 1802.
2 C		Rending Centro, N. Y.	Raken, bay	Oct. 7, 1862
37, 0.56		Bowlott, Mass.	Strang, shoulder	Dec. 9, 1803
35		Waterbury, Vt.	Clothen-wringing machine	D. d. D. Intell
23	_	Wilmington, De.	Anche, meeline for holding open	Pr.1.4. 0, 1862.

74. \$7, 18*82. 77. \$27, 18*82. 79. \$27, 18*82. 74. \$7, 18*62.	r. 25 , 1862, vy 97, 1962,	ヸぢず づっ	7 1 1862 7 27, 1862 7 27, 1862 7 27, 1862 5, 25, 1862 7, 18, 1862	8 8 8 8 E	b. 11, 1862. b. 11, 1862.	Feb. 4, 1983. Mar. 18, 1982. Dec. 23, 1982. June 17, 1982. June 3, 1982. Dec. 29, 1982.	Oct. 28, 1862. Nag. 5, 1862. Mar. 25, 1862. April 8, 1863.
Charing Control of the Control of th	Fire-arm imagazine	Releane)	Statuary, the Checker Players. (Design) My Statuary, the Village Schoolmaster. (Design) May Statuary, the Village Schoolmaster. (Design) May Statuary, the Cump Fire. (Design) May Messures, ilqud Whower, grain	Shells for rifled ordnance	Engine, rotary Peb.	Air-engines, bot Air-engines, bot Borgines, steam, inbricator for Borgin and shoes Borgin and shoes Borgin and shoes Ju Borgin and shoes Ju Borgin and shoes	Candie-moulding machines Bands, drving, for machinery Boxes, passing, Rig, topsail
Britana, N. F. Discontinuo, Obbo Bellowidan, Obbo Butter Contra, N. Y. Now York, N. Y.	Springfield, Mast. Madison, Oblo	Alleghany Pa Beranton Pa Willow Volk, W. Y Now York, M. Y	Now York, N. Y. Now York, N. Y. Now York, N. Y. Now York, N. Y. Cholegomery Square, Pa. Cholego, III.	Cedar Kapida, 18. Columbus, Ohio. Philadelphis, Ps.	Battle Creek, Mich	Boston, Mass	Cincinnati, Obio Paris, France Roxbury, Mass Macedon, N. Y
Religions, John. Religion, Lorentin. Religion, Joseph. Reckerw, J. R. Rockerw, J. V., and C. A. Stovana. (See Survens & Book.	<u> </u>	Rogers, C. B., & Co. (See Joslin & Gibba, assignors.) Rogers, David B. Rogers, H. C. Rogers, H. C. Rogers, Henry S. Rogers, John		Romans, William Romans, William Romertze, Henry T. Root & Jewett, (Sze Stanard, Walter W., ass'or. Design.) Root & Jewett, (Sze Stanard, Walter W., ass'or. Design.) Root & Jewett, (Sze Stanard, Walter W., ass'or. Design.)	Root, E. B., et al. (Se Root, John B. Root, John B. Rooty Retury Steam	Roper, S. H., assignor to the residence of the residence	Ross, Thomas, and Francis M. Strong & Strong & Ross, Ross, Gregory, assignor to himself and Henry Homan Roullier, U. M. Strong, A. O. Roulstone, Edward, A. O. Rousstone, Edward, A. O. Rouss, Philander, assignor to himself and W. S. Higgins.
25.55.57 5.55.	¥.8 E.8	1, 25, 52, 1, 25, 25, 25, 25, 25, 25, 25, 25, 25, 25		883 883	94, 375 376,	¥¥¥¥¥¥ B£¥\$\$\$£	BR44

List of palentees of inventions, designs, and reissues, 1862.

Name.	Residence.	Invention or discovery.	Date.
V. M. H. Gill.	Freeport, Pa. Atalissa, Ia. Atalissa, Ia	Screens, grain. Milistone picks, handles for. Separators, grain.	Oct. 21, 1862. Aug. 12, 1862. Dec. 9, 1862.
	New York, N. T. Beaver Dam, Wis. Beaver Dam, Wis	Crushing linseed, &c., machine for Horse-powers Reeding machines	Oct. 28, 1862. Sept. 30, 1862. Oct. 14, 1862.
	Melrose, Mass Green Point, N. Y.	Clothes wringer Metals, machines for planing	3,4,
) at at at	Southampton, N. Y Southampton, N. Y Southampton, N. Y	Harpoon, rocket Propellers Whules, sunken, to the surface of the water, apparatus	June 3, 1862. June 3, 1862. June 3, 1862.
i, aasignors iday. (See	Now York, N. Y.	Jocket, War	July 22, 1862.
	Fitchburg, Mass.	Stump-extractors Domes	7.5
	St. Louis, Mo. Philadelphia, Pa. New York, N. Y.	Supp., construction of the defensive armor for Fire-arms, revolving.	් ශ්රී
	Now York, N. Y. New York, N. Y. Philadelphia, Pa.	Malt liquors from becoming flat, apparatus for preventing. Powder, percussion	Mar. 18, 1862, June 3, 1962, Mar. 25, 1862,
anufacturing Company. (See Wood- for.)	New York, N. Y.	Corkacrows	Jan. 21, 1862.
	Marillon, Ohio.	Horre-powers, double-geared	
tasignor to himself and Benj. F. Tefft.	New York, N. Y.	Cutiery, table, handles of(Design) Shells, concussion fuze for	ල කි්
Numbel, 1 lus II. Rust (forge 8 Rust, George 8	Northbeld, Vt. Chester, III. Chester, III.	Water-whoels Apples, grappes, &c., expressing the juice of. Mills, &c., apple, convertible.	July 15, 1862, Aug. 12, 1862,
	Summerfield, III. Cobourg, C. W. Fast Pembroke, N. Y.	Planters, corn. Building, method of ventilsting & warming. (Extension) Distrers, notato.	June 10, 1908. June 9, 1868. May 90, 1868.
ji bu mar F	Farmington, III Lawion, Mich Hosizo, Man Wellington, Ohlo	Harvesters Millatore, meditor for dressing Cara, raticoad, mode of operating brakes of Cheene wits	erse

Jan. 28, 1862. Peb. 25, 1962. Oct. 24, 1862. May 20, 1863.	Dec. 2, 1862. Dec. 23, 1862.	Jan. 14, 1862, Dec. 9, 1:62,	April 8, 1869. June 10, 1969. Mar. 10, 1969. Mar. 11, 1969. Mar. 21, 1969. April 19, 1862. June 24, 1962. June 24, 1962. Sept. 16, 1962. Sept. 16, 1962. Oct. 14, 1962.	Sept. 23, 18-2. May 6, 18-62. May 6, 18-62. Mar. 25, 1-62. Oct. 28, 18-62. Jan. 14, 18-62.	April 1, 1892 April 25, 1862. Feb. 4, 1862. Dec. 83, 1863. June 17, 1862. Oct. 188, 1862. Aug. 13, 1862. Aug. 18, 1862. Mar. 18, 1862. Mar. 18, 1862.
Cars, molo of populing Volumer, who is the other Volumer Volumers Works in the second population of the Comments of the Commen	Cranberries for preservation, patting up	Grain bins		Augers Aumpers Furnaces, hotesir Furnaces, hotesir Furnaces, hotesir Furnaces Lamp Lamp Lamp-chimney fa-teulogs Ships of war, or other navigable yessels, construction of	Hook, cost and hat (Design) Coffin handle Coffin handle Figure of the control of
Ricultonella Obio Albuny, N. Y Albuny, N. Y Greensen, Y	Providence, N. T	Now York, N. Y. Now York, N. Y.	South Berwick, Me Hardwick, N. Hardwick, N. How York, N.	Meriden, Conn. Brooklyn, N. Y. Brooklyn, N. Y. Brooklyn, N. Y. Brooklyn, N. Y. Broffalo, N. Y. New York, N. Y.	New Britain, Conn New Britain, Conn Boston, Mass Boston, Mass New York, N. Y Gerimant, Ohlo Chelsen, Mass New York, N. Y Washington, D. C Meriden, Conn Reichen, Conn Ritchburg, Mass Flichburg, Mass
cale Company. (See Sampson,	Sminstan, sangror.) Sampson, Alden & Sons. (See Meyer, Victor, assignor design.) Sampson, Einsthan, assignor to the Sampson & Tibbetts	Scale Company. Sampson, Wm. 8. Sampson, William 8. assignor to self and G. H. Johnson.	Sampoon, No. (35st Johnson, twotype H., mangnor, chengen, Samborn, Jahob M., sangnor to saif and E. M. Gufford Samborn, Gleton, and James E. Mallory Samford, Gletton, and James E. Mallory Samford, Gletton, and James E. Mallory Samford, Gletton Samford, Gletton Samford, Gletton Samford, Gletton Samford, Gletton Samford, Gletton Samford, Gletton Samford, Gletton Samford, Gletton, and James E. Mallory Samford, Gletton, and James E. Mallory Samford, Gletton, James E. Mallory Samford, Gletton, James E. Mallory Samford, Gletton, James E. Mallory Samford, Gletton, James E. Mallory Samford, Gletton, James E. Mallory, and Clark F. Hayes.	Coe Hebard, Hill & Rockwell, Inde W Coe Bostwell, (See Bost	wick & Saggent) Bargent, J. B. Sargent, J. B. Sargent, J. Goeph F., ass Bargent, Joseph F., ass Barrent, Joseph F., ass Barrent, Jonathan L. Sarrent, G. C. G. Sarrent, G. G. G. Sarrent, G. G. G. Sarrent, G. G. G. Sarrent, G. G. G. Sarrent, G. G. G. Sarrent, G. G. G. Sarrent, G. G. G. Sarrent, G. G. G. Sarrent, G. G. G. Sarrent, G. G. G. Sarrent, G. G. G. Sarrent, G. G. G. Sarrent, G. G. G. Sarrent, G. G. G. Sarrent, G. G. G. Sarrent, G. G. G. Sarrent, G.
4.4.8.4. 1.5.8.4.	37,008	4 , 16	¥444444444444 \$\$\$\$£ <u>\$£\$55</u> 56	%%%%%%% %%%%%%% %%%%%%%% %%%%%% %%%%% %%% %%% %%% %% %% %% %% %	<u>ੑਜ਼ਜ਼ਜ਼ਜ਼ਖ਼ਖ਼ੑਖ਼ਖ਼ਜ਼ਜ਼ਜ਼ਜ਼ਫ਼ਫ਼ਫ਼ਫ਼ਫ਼ਫ਼</u>

List of patentees of inventions, designs, and reissues, 1862.

	88 8 3 8 8 8 8 9	1862 1862 1862 1863 1863 1863 1863 1863	8 5 8 3 8 8 8 8	28, 1862, 12, 1862, 19, 1862, 2, 1-62, 9, 1862,	4.0 5.4 5.0 5.0 4.0 5.1 5.5 4.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5
Date.	8,2,2,	इल्ब्रे स्ट्रे	Ξ,∞,Ξ,%į		A 40 10 41
"	Nov. Aug. May	Jan. 14, 1862. June 3, 1862. April 22, 1862. July 15, 1862. Aug. 19, 1862. Sept. 30, 1862.	Nov. July July	Jan. S Aug. 1 Sept. Dec.	May 6, 18, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19
Invention of discovery.	Sails, top, and courses of ships, apparatus for reefing Shells, explostre, combined time and percussion fize for Fire-oscapes	Printing press Fiano orchestra Gas metres, dry Shells, time and percussion fures for Shells, explosive, concussion fures for Shells, explosive, percussion fures for	Burning liquids lighter than water, apparatus for Buckets, chamber. Truss pads Truss padq	Ebuttles Washing machine Lamps, mica, chimneys for Lauterns, coal-oil Lamp chimney	Printing surfaces, process of obtaining Press, baling Briath, scrubbing Briath, scrubbing Briath, scrubbing Briath cases Burial cases Turning and mortising hubs, machinery for Noise, cheek, &c., dovice for cancelling Noise, the key, &c., dovice for cancelling Fire-serm, magnatine Fire-serm, magnatine Fire-serm, pistons for Coll. case
Residence.	Porland, Mo. Fitchburg, Mass Lowell, Mass	Sk. Louis, Mo. Triera, Russia. Philadelphis, Pa. Boston, Mass. Boston, Mass.	Pittaburg, Pa. Washington, D. C. Cloveland, Ohio. Cloveland, Ohio.	Lawrence, Mass Galupville, N. Y New York, N. Y New York, N. Y New York, N. Y	Brooklyn, N. Y New York, N. Y Cleveland, Ohio Somervillo, Mass Somervillo, Mass St. Louis, Mo St. Louis, Mo St. Louis, No Auburn, N. Y Authurn, N. Y Pittanics, N. Y Pittanics, N. Y Pittanics, N. Y Pittanics, N. Y Pittanics, N. Y Pittanics, N. Y Pittanics, N. Y Pittanics, N. Y Pittanics, N. Y Pittanics, N. Y Pittanics, N. Y Pittanics, N. Y Pittanics, N. Y Pittanics, N. Y
Nume.	Sawyer, Eben A., and James B. Nichola. Sawyer, Sylvanus A. and A. M. Sawyer, Wesley. Scarlett, Wilsam. (See Cork, George, assignor). Scarlett, Wilsam, and Amos B. Morey. (See Morey &	E 9 - 6	Schieffelin, Bradhurit, (Sce Mowbray, George W., assignor.) Schneider, Uhrisann G Schneider, J. A Schneider, J. A Schneider, J. A Schnitzer, Joseph, and C. C. Harrison, (See Harrison & Schuitzer, Umper J. A Schnitzer, J. A	• 8 : ≥ 8 : 5	Schotze, Paul, assignor to self and Frederick W. Billing. Schotyfer, Bante S., seafgror to John J. Eckel Schweitzer, Charles, (See Gregor, Charles, assignor.) Schweitzer, Charles, (See Gregor, Charles, assignor.) Schweitzer, Alois, and deorge Jansen Scoollay, George W. Scoollay, George W. Scoollay, George W. Scott, Edwun M. Scott, Edwun M. Scott, Edwin M. Scott, J. A
No.	37,911 36,172 35,413	85.45 85 85 85 85 85 85 85 85 85 85 85 85 85	86,917 85,841 85,167 85,856	18. 28. 28. 29. 20.	68 88588

Mer. 95, June 17, July 1, July 8, July 8,	Aug. 11 1862. Dec. 23, 1862. Dec. 23, 1862. Dec. 23, 1862. Dec. 24, 1862. Aug. 5, 1862. Aug. 5, 1862. Aug. 5, 1862. Aug. 5, 1862. Aug. 5, 1862. Aug. 6, 1862.	April 15 1962. Oct. 7, 1962. Nov. 11, 1962. Nov. 4, 1962. Nov. 4, 1962. June 17, 1962. May 9, 19, 1962. Reb. 25, 1962. May 20, 1962. May 20, 1962. May 20, 1962. May 50, 1962. May 50, 1962. May 6, 1962. May 6, 1962. May 6, 1962. May 6, 1962. May 6, 1962.	Aug. 19, 1862, Nov. 11, 1692.
Churns Sail, line to mast hoop Bediteads, hospital Medsteads, invalid Willarone, dress Fire-trans, cop.printing steachment to		Gas regulators Pumps, steam Boulding, machinery for making Roulding, machinery for making Pumps, steam, valves for Essiers Pumps, steam, valves for Essiers Themps, machines for upsetting and streething Grain, mode of alfung and bagging. Wagons, shifting hinge joint, or coupling shafts of Grain, mode of alfung and bagging. Wagons, shifting hinge joint, or coupling shafts of Chair Fire-arms, breech-loading, gas check for Seeding machines. Either artificial Grain, atther akes for Barrosters, rakes for Harvosters, rakes for Barrosters, takes for	Bullet, compound, for small serns Gun, springs' contribusal Locks
Cleveland, Obio Kennebunkport, Me Wilmington, Del Ginchmat, Obio Brookline, Mass	Brooklyn, N. Y. Brooklyn, N. Y. Brooklyn, N. Y. Brooklyn, N. Y. Broots, M. Y. Greenwich, Conn Greenwich, Conn Philadelphia, Pa. Philadelphia, Pa. Philadelphia, Pa. Philadelphia, Pa. Philadelphia, Pa. Philadelphia, Pa. Philadelphia, Pa. Philadelphia, Pa. Philadelphia, Pa. Philadelphia, Pa. Philadelphia, Pa.	Cincinnati, Oblo. New York, N. Y. New York, N. Y. New York, N. Y. New York, N. Y. Baltimore, Md. Mcker Ser, Par. Laporte, Ind. New York, N. Y. Centre Lisle, N. Y. Lisle, N. Y. Lisle, N. Y. Lisle, N. Y. Beston, Mass. East Bloomfield, N. Y. West Instited, Conn. Kockport, N. Y. Loncaster, P. Lancaster, P. Lancaster, P.	Brooklyn, N. Y Madison, Conn Somersot, Mass
(See House, James A., and Heury A., I. (See Myers, Searles & Spencer.) seignor to self and Matthew B. Dosiner. seignor to self and James L. Haven	vter Hopkins. 1 to William Sellers & Co. 1 to William Sellers & Co. 1 to William Sellers & Co.	Cassol. (See Cassel & Semple.) seignor to Louis F. Thernason and signor to self and Geo. W. Grogory signor to Edward H. Asheroft. and Aaron Palmer. John L. Livingston. (See Boyers.	William, assignor.) Shaler, Ira W., and Reuben, assignors to Ira W. Shaber Shaling, F. O.
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List of patentees of inventions, designs, and reissues, 1862.

Data	Mar. 4, 1862. Sept. 23, 1862. April 15, 1862. April 20, 1862. Dec. 2, 1862.	Dec. 16, 1862. July 8, 1862. Feb. 25, 1862. Mar. 18, 1863. Mar. 11, 1862.	April 29, 1863. April 29, 1863. May 13, 1862. Aug. 19, 1862. June 24, 1862.	May 27, 1962. May 27, 1963. Aug. 19, 1962. July 1, 1962.	Mac. 4, 1962. July 15, 1962.	April 1, 1862, July 29, 1862, April 22, 1862, Mar. 11, 1862, Nov. 18, 1863, Nov. 18, 1863, 1863, Nov. 18, 1863, 18	April 28, 1862.
Invention of discovery.	Cartridges for fire-arms. Seeding machines Seeding machines Cartridge, metallic for burial plats Cartridge, metallic for burial plats Cartridge metallic for burial plats Gan-sliding breech-pla, and self-capping (Extension).	Sewing machines Silver from waste solutions, apparatus for saving. Leather, composition for dressing. Shingle machine. Writing tablets.	Tobacco pipes. mode of laying Telegraphic cables, mode of laying Batteries, manning, or other means of connecting metallic armore, plates for, Things, blow-off cocks for, Panella lead and rubber hand for		Stove (Design)		Nutracial, fattering the cover of
. Residence.	New York, N. Y. Freeport, III. Philadelphia, Pa. Philadelphia, Pa. Philadelphia, Pa.	Worvester, Mass. Bridgeport, Coun. Abungton, Mass. Bon Claire, Wis. Boston, Mass.	Philadelphia, Pa. Philadelphia, Pa. Philadelphia, Pa. Philadelphia, Pa. Cambridee Mass.	Bellefontaine, Obio. Wert Grove, Jowa. Esst Boston, Mass. Calais, Vt.	New York, N. Y	Shaker Village, N. H. Taunion, Mass Bt. Louis, Mo Buffalo, N. Y Brooklyn, N. Y	Chleago, Ill. Undulla, N. Y. Independence, Iowa.
Лаше.	Shannon, Alexander, assignor to self, T. W. Weathered, and E. B. Cherevoy. Shannon, Jackson Sharpe, James Sharpe, Christian Sharpe, Christian Sharpe, Christian Sharpe, Christian Sharpe, Christian Sharpe, Christian Sharpe, San Sharpe, Shirth assignor.)	Shaw, A. B., seegmor to self and N. H. Shaw. Shaw, Johnson. Shaw, Melyin. Shaw, Noah, William B. Estabrooks and C. A. Piper. D. Shibee. D. Shibee.	Shaw Thomas assigner to self and Philip B. Justice. Shaw, Thomas, assignor to-self and P. S. Justice. Shaw, Thomas Assignor to-self and P. S. Justice. Shaw, William H. assignor, through messes assignments.		Shepard, Churkes 3	Shepard, Robert Shepard, Silas Shoridan, Jumes Sherman, H. U. Sherman, H. U. Sherman, S. J. Sherwood & Douglas, (See Douglas, Alexander, sasignor.) Sherwood, Jantel, sasignor to self and Edyard P. Woods.	Hirrwood, Innto. — Hirrwood, D. Jr. Hirrwood, D. Jr. Hirrwood, J. S. and Alexander Douglas. (See Douglas
No.	94, 615 34, 835 34, 987 37, 657	enu enu enu enu enu enu enu enu enu enu	8888 81. 828 889 838 889	25.50.20 25.20 25.20.20 25.20.20 25.20.20 25.20.20 25.20.20 25.20.20 25.20.	aitized by	1000 S 28822 85 28823 85	36 11. 19. 19.

June 10, 1862. Dec. 9, 1862. Feb. 9, 1862. July 29, 1862. July 29, 1862. July 29, 1862. July 29, 1862. July 29, 1862. July 29, 1862. July 29, 1862.	June 10, 1862. Jan. 21, 1862. Jan. 28, 1862. May 20, 1862.	Bept 9, 1962 May 30, 1962 May 30, 1962 April 22, 1963 Oct. 14, 1963 Dec. 2, 1863 Duly 29, 1863 Aug. 19, 1963 Aug. 19, 1963 April 11, 1962 April 11, 1962	Mar. 25, 1862. Mar. 25, 1862. Feb. 18, 1863. Jun. 7, 1863. Sept. 9, 1862. Nov. 11, 1862. Mar. 18, 1862. Mar. 18, 1862.
Boot-crimping device Railroad switch Railroad	Photographs, press for	Boot and shoe tip Bootees, manufacture of Planters, corn, foot Heaters Leamp-burners Grain-cleaners Tenons on wheel spokes, machine for cutting Ager, railroed, axle boxes for Ager handles Gar coupling.	Door-knobs to their spindles, mode of fastening Horseshoes, vice for holding and swaging Fre-arms, breech-loading Water-wheel Bedstead, lonnge and chair Wagon and carriage brakes Freserving fruits, &c., in scaled cans Boots and above, in sole for
Saratoge Springe, N. Y. Saratoge Springe, N. Y. Saratoge Springe, N. Y. Boston, Mass Philadelphis, Ps. Polladelphis, Ps. Consubbocker, Ps. Boston, Mass Boston, Mass Boston, Mass Elockport, N. Y. Flushing, N. Y.	Greenville, Conn. New York, N. Y. New York, N. Y. Boxbury, Mass	Persectt, Mo. Boston, Mass Boston, Mass New York, N. V. Lowell, Mass Lowell, Mass Toeumske, Mich Maultrille, N. Y. Great Bend, Ph Great Bend, Ph Little Prairie, Mich New Pork, N. V.	Sencea Falls, N. Y. New Bedford, Mass. New Bedford, Mass. Darstell Brittol, Vi. Brittol, Vi. Frenchtown, N. J. Cumpton, Md.
Shimer, Spiranna, and Pordinand Garbor. (See Gurbor Shiner). Shipford, W. C. Andrewa. (See Andrews & Shine.). Shipford, W. C. Shireman, Joseph H. Shive, D. H. Shive, D. H. Shive, D. H. Shive, D. H. Shive, D. H. Shive, D. H. Shive, D. H. Shive, D. H. Shive, D. H. Shive, D. H. Shive, D. H. Shive, D. H. Shive, D. H. Shive, D. H. Shive, D. H. Shive, D. H. Shive, D. H. Shive, J. and C. H. McAleer. (See McAlcer & Shively.) Short, Joseph, assignor to Charles Short. Short, Joseph, assignor to Charles Short. Shular, J. D. and J. T. Shinerick. (See Pimentel & Shire, William H., and J. A. Pimentel. (See Pimentel &	gnor to Samuel Mowry E E and Theodore Brecht. (See Brecht & Charles E. Hodges. (See Shaw, Philan-	Silverthorn, Newman, assignor to James M. Allen Silverthorn, Newman, assignor to James M. Allen Silverter, Albort H. Silverter, Albort H. Silverter, Albort H. Silmpson, A. J., and J. B. Currier Silmpson, John, and Wm. Hayden Silmpson, John M. Silmell, Wm. W. Silmell, Wm. W. Silmell, James P. Silvelsir, James P. Silvert, I. M.	Siddenfre, Darins. Skidinfre, Darins. Skidinfre, Darins. Skidinfre, Barna. Skinner, Barna. Skinner, George B. Skinner, S. A., nasignor to self and Silas Ruggles Slanc, Charles A. Slancher, Henry B. Sleeper, Jonathan C., and Harrison Parker. (See Parker & Sleeper.) Slingerland, John, assignor to self and John H. Kelly Sloam, John.
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List of patentees of inventions, designs, and reissues, 1862.

Name.	Residence.	Invention or discovery.	Date.
(See Boynton, G. R., as-	New York, N. Y. Cambridge, Mass	Skirta, booped Inkstands	Oct. 14, 1962. June 3, 1962.
John Wordell (See Modell & Slover)	Syracuse, N. Y.	Diggers, potato	Mar. 25, 1962.
	Banger, Me	Projectiles for rified ordnance. Writing-case and checker-board combined Car couplings Grates for burning petroleum and other liquid fuci Separators, grain(Extension)	Mar. 4, 1962, Jan. 14, 1962, May 27, 1962, Oct. 28, 1963, April 7, 1962,
Smith, Aaron W Smith, Addison	Brooklyn, E. D., N. Y. Manchester, N. H. New York, N. Y.	Gas regulator Spinning, filers for Blowers, rotary	Aug. 26, 1862. Nov. 4, 1862. Feb. 4, 1862.
	Norwich, Conn Norwich, Conn Bron, N. Y	Locomotives, trucks for. Ventilating railroad cars. Axies, attaching thills to	Feb. 11, 1862 Sept. 23, 1862 July 1, 1862
B. H., and G. W. Archor II. Charles G. Charles W. Charles W. Charles W. Charles W. Charles W. Charles W. Charles W. Charles W. Daniel G. A Daniel G. A Daniel G. A	Burlington, N. J. Burlington, N. J. Mount Vernon, N. Y. Mow York, N. Y. New York, N. Y. Evana, N. Y. Andrin, Mich.	Kallways Inreceiers Composition for water-proofing cloth, leather, &c. Matches fretton Matches fretton Watching mediuse Shalls, constructors Watching mediuse Watches allocators and convences	Sept. 30, 1862, June 24, 1862, Mar. 11, 1862, Mar. 25, 1962, Jun. 14, 1962, May 6, 1962,
~	Cold Spring Harbor, N. Y. New Haven Mills, Conn.	Harvesters	ឌុង
<u>्ः</u> इड	Cold Spring Harbor, N. Y	Harvestors	April 22, 1863
ustignor to S. 8. White	Philadelphia, Pa Philadelphia, Pa	Ping, dentisis', manufacturo of. Stove, cook's(Design)	Mar. 4, 1962, July 1, 1962,
	Philadelphia, Pa	Stove, cook's, plates of a(Design)	
P. C. Mand, assignor to Siles O. Smith. V. and R. M. Stivora. (See Silvera. & Smith.) V. and R. M. Stivora. (See Silvera. & Smith.) P. J. and W. M. Stivora. (See Silvera. & Smith.) P. sasignor to S. M. Mannon. & Co.	Rochoster, N. Y. Philadolphia, Pa. Albuny, M. Y.	Illumination Oils, coal, and other mixed liquids, opparating for testing for testing for testing	Oct. 14, 1868.

Proof. Proof. Proof.	Dec. 16, 1902. June 24, 1802.	April 8, 1909.	4,5	, vij c	1	o c	Ξí	ရှိတ် ရ	&=	E S	·	- auly 1, 1602	Jan. 7, 1862. Mar. 11, 1862.	Sept. 22, 1869.	. 4	į or	Dec. 23, 1862 Oct. 28, 1973		8	įď			Dec. 16, 1862.	June 10, 1862.	May 20, 1862.	June 17, 1762.	April 30, 1506.
smith, Jacob and Sea Hang. (See Hung & Bmith.) Smith, J. C., and Sea Kelly, Daniel, and growth, J. C., and Sea Kelly, Daniel, and growth, Jacob A. (See Kelly, Daniel, and growth, Jacob A. (See Kelly, Daniel, and growth, Jacob A. (See Kelly, Daniel, and growth, Jacob Jr. (Smith, John E., Smith, John E., saugnor to self and C. T. and I. N. Choster Smith, John E., saugnor to self and C. T. and I. N. Choster Smith, Joseph Nottingham Smith, Joseph Nottingham Smith, Joseph Nottingham Smith, Jever B. (See Williams, N. W., assignor.) Smith, Jever P. (Smith, Oliver C. Smith, Oliver C. Smith, Orren M. (See Williams, N. W., assignor.) Smith, Orren M. (See Williams, N. W., assignor.) Smith, Orren M. (See Williams, N. W., assignor.) Smith, Samuel R. (See Carry, John, assignor.) Smith, Sheldon & Co. (See Ham, Robert, assignor.) Smith, Sheldon & Co. (See Ham, Robert, assignor.) Smith, Nilson H., assignor to Lane & Bodley Smith, Nilson H., assignor to self and R. M. Basset Smoth, W. S. (See Carry, John H., Sander, John H., Sander, John H., Sander, John H., Sander, John H., Sander, John H., Sander, John H., Sonthiam, Southward, John A., Scottleward, Spain, Reinard, Spain, Shard, Warand. Southward, William So	Grates for stores. Planters, seed Tombstones	Embroidery imitation, motal Corn-shellers	Hingos for shutters.	Telegraphs, electro-magnetic.	Drilla, grain	Drills, grain	Lamps, coal-oll	Bottles, necks of, tools for forming the	Bollers, steam Saccharine Houlds, spearains for exaporating	Piston packing	Yeselle, submarine armanourourourourourourourourourourourourouro	Pen-rack	Ploughs, mole	Saw-mills efreniar head-blocks for		Cups, dippers, &c., elastic, mannincture of Wells, apparatus for cleaning.	Projectiles for rifled ordnance. Shells, combined time and concuston fuze for	Pire-arms, revolving.	Boot-heel shave		Lamp chimneys, spring for			Source trachina	Cattle, device for fastening		
	Albany, N. Y. Poorla, III. Port Chesics, N. Y.	Now York, N. Y	Alloghany City, Pa.	New York, N. V.	Tiffin, Oblo.	Jersey City N. J.	New York, N. Y.	New Haven, Conn. Stonington, Conn.	Pittsburg, Pa.	Salem, Mass	Street, Manager	New York, N. Y.	Louisville, Ky	Cincinnati Ohio		Boston, Mass. Port Washington, Wis.	Birmingham, Conn.	Baltimore, Md	North Bridgewater, Mass.	Watertown, Mass Rochester, N. Y.	West Meriden, Com	There is a	Daltimore, Md	Bridonwater Ut	Jamestown, N. Y.	Newcaetle, Me	Philadelphia, Pa
	lacand, nasignor to S. H. J. C., and Nat Hang. J. H. and G. W., assign	Jacob A. (See Kelly, Daniel, assignor.) James S., fr.	Joel, Jr.	John E. Token P. Company of the Photogram	Jonathan	Joneph Nottingham	Joseph Notingham	Leander E.	Matthew M. H.	Ollver C	O. C., and J. Hodskinson. (See Hodskinson & Smith.)	Orien M. (See Williams N. W. assignor.)	Richard P., and	Samuel A. (Se		Thomas, ir. William E.	Wilson H., assignor to self and R. M. Basset.	r., C. Edward	Edward 8	George K. H. D	Oliver	3	on, Isaac Warren and Joseph W. Brooks, (See Boothby	nam S., nssignor.)	and, S. B.	nayd, John A. worth, William.	Edward Rufus H. (See Towle, George P., seeignor.)
一点 医克莱克克克氏征 医甲基氏 医二甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基	Smith							Selth Selth	Smith					Smith	Smith												

List of patentees of inventions, designs, and reisoves, 1862.

Date.	June 10, 1862. Aug. 26, 1862. Aug. 26, 1862. Nov. 18, 1862. Sopt. 23, 1862. July 1, 1862. Feb. 4, 1862.	Mar. 4, 1962.	Feb. 11, 1862. Aug. 5, 1862. Aug. 19, 1862.	Feb. 4, 1862. Sept. 2, 1862. Mar. 18, 1862. Mar. 19, 1862.	May 20, 1862. May 20, 1862. May 27, 1862. Nov. 25, 1863.	April 8, 1862. Nov. 18, 1862. Sopt. 23, 1862. Jan. 7, 1862.		July 22, 1862.	Aug. 19, 1862. Nov. 4, 1862. April 29, 1862. Mar. 11, 1463. Mar. 4, 1862.
Invention or discovery.	Stove doors Water wheels Spirits, ardent, treating. Jars and case, preserving mechanisms and the serving machines Mulls, eder Fire-strang, breech-loading.	Motion, mode of converting	Ticket stamp, railroad. Stamps, hand. Marking machines.	Saddles, military or other riding. Saddles, harmons Saddles, barness Saddles, common manufacture of Salt, common manufacture of Salt, common manufacture of	Veneral machines Veneral training machines Buckles Rakes, horse	Larvestor rakes. Clothes-wringing machine Bit braces. Doors, device for closing.	Stove plates. (Design) Stove. (Design) Stove. (Design) Planc-fortes. (Design) Spinning machines, throstle, bobbins of	Lemps	Skater Tee elog Carding cugines, condensing Churd quegines, condensing Churt dishere Weshing machine
Retidence.	Philadelphia, Pa. Liston, Mo. Gorbam, Me Salem, Mass R. Louis, Mo. Gramplan Hills, Pa. South Manchester, Conn South Manchester, Conn	Providence, R. I	St. Louis, Mo. St. Louis, Mo. St. Louis, Mo.	Brooklyn, N. Y. Brooklyn, N. Y. Syracuse, N. Y. Syracuse, N. Y. Syracuse, N. Y.	New York, N. Y Baltmore, M. Y Brooklyn, N. Y Hughesville, Pn	burbalo, N. Y. Boston, Mass. Portland, Me. New York, N. Y.	Duffalo, N. Y. Buffalo, N. Y. Buffalo, N. Y. New.York, N. Y. Lawrence, Mass. Middleboro', Mass.	Middlebore, Mass.	New York, N. Y. Cincinnati, Ohio. Philadelphia, Pa. Thardon, Ohio. Jersey Shore, Pa.
Мате,	Spear, James D., assignor to self and F. Buckman Spears, Charles D., assignor to self and F. Buckman Speed, John James, and Francis Barlett Smith Spence, William T. Spencer G. M. assignor to Charles Chency.	Spencer, Charles L. Spencer, Edward, and John Schaffer. (See Schaffer &	(Co. Wrong Conduct & Connect	Spinter, 1904. W., te at., (oce m.) us, boaries at Dreuter.) Spinter, Robert Spinter, Thomas Spencer, Thomas Spinter, Thomas	Spercy, John Spies, William T Spries, Leonard A Sprout, A. B.	Squirer, Grootge L. Squirer, Sidney, assignor to C. B. Boyce & Co. Stackpole, Greenleaf Stafford, M., and C. Whipple. (See Whipple & Stafford.) Stager, David J	Stallo, John H. (See Zettle, William sastgnor.) Shanard, Walter W., assignor to Jewett & Root. Stanard, Vanec C. Stanley, James C. Stankell, Charles C., assignor to self and Aaron W. Rock.	Stansell, Charles C., saugnor to self and Anron W. Bock-	Stary, Eben J. Stary, Eben J. Stary, Joseph J. Hyed, Isane Stearn, I. N., assignor to soff and L. N. Muir
No.	8,8,3,8,8,8,8,8,8,9,8,9,8,9,8,9,9,9,9,9,	34, 597	34, 378 36, 114 36, 943	9, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,	{8,8,8,6,8 8,8,6,5,8,6,8,6,8,6,8,6,8,6,8,6,8,6,8,6,	388	2528855 8728885	35,079	36, 244 35, 114 34, 552 34, 552

Many 0, 14000. Many 1, 14000. Many 2, 14000. Many 2, 14000. Many 2, 14000. Many 2, 14000. Many 3, 14000. Many 3, 14000. Many 1, 14000. Many	Dec. 9, 1969.	Mar. 25, 1862	Mar. 18, 1962 Mar. 18, 1963 April 29, 1963 April 29, 1963 Aug. 5, 1963 Beyk 16, 1969 Aug. 5, 1963 Aug. 5, 1963 Aug. 5, 1963
Tubing, wooden, worker, wooden, worden, war hampen, wooden, wo	Button-hole cutters Straw and hay cutters	Stoves, portable Stoves, portable Stocharmo julces, apparatus for evaporating Stocharmo julces, apparatus for evaporating Clocks (Johns-wringer Clocks, resease, menhad of neuting feet-water for Engines, steam, neuhad of neuting feet-water for Engines, steam, valves for heating feet-water for Engines, steam, valves for heating feet-water for Condensers, surface, ableds for Condensers, surface, allowed for spreading.	Stove, cooking. Axles, mode of lubricating Scissors, contor, stationary Water wheels, curvats Gas-burners Looms, Betteries, marine, means of affixing defensive armor plates to. Journals and journal boxes Valves, site, for steam apparatus Boliers, steam, fire regulators for Bolier feeder
Johnson, V. S. N. Y. New, N. Y. Providence, R. I. N. Y. New York, N. Y. New York, N. Y. Genesco, Wis. Genesco, Wis.	Dorchester, Mass. North Bridgewater, Mass.	New York, N. Y Boston, Mass Boston, Mass Boston, Mass Hoboken, N. Y Hoboken, N. Y New York, N. Y New York, N. Y New York, N. Y New York, N. Y New York, N. Y New York, N. Y New York, N. Y New York, N. Y New York, N. Y New York, N. Y New York, N. Y New York, N. Y New York, N. Y East Durham, N. Y	Portland, Me. McKeeport, Pa. Plano, III. Battle Creek, Mich. Philadelphia, Pa. Wooster, Obio. Fabius, N. Y. Baldwinsville, Mass. New York, N. Y. New York, N. Y.
Strown, Otta W. Stroken, Houry F. (See MoNamee, Junes, assignor.) Steiner, Livatius N. Steiner, Livatius N. Steiner, Livatius N. Steiner, C. S	Meanly Study, and James S. Newell. Stetson, S. C. Stetson, S. C. Stetson, Thomas D., and Charles W. Smith. (See Smith &	C. A., and J. V. Rookwell Chester D. E. M.	Stevens, Wm. W., assignor to Nath! P. Richardson & Co. Stevens, Wm. W., assignor to Nath! P. Richardson & Co. Stevens, Garege (See Boyle, James E., assignor.) Stevent, James F., and Theo. B. Hammer. Stevent, Bnoch. Stevent, Bnoch. Stevent, Phone P. (See Howard, Luther W., assignor.) Stibes, Thomas. Stibes, Thomas. Stimets, C. P. (See Hall, E. J., assignor.) Stimets, C. P. (See Hall, E. J., assignor.) Stimets, C. P. (See Hall, E. J., assignor.) Stimets, C. P. (See Hall, E. J., assignor.) Stimets, C. P. (See Fairchild, John H., assignor.) Stimets, C. P. (See Fairchild, John H., assignor.) Stimets, C. P. (See Fairchild, John H., assignor.) Stimets, C. P. (See Fairchild, John H., assignor.) Stimets, J. C. et al. (See Jonkins, Jacob, assignor.) Stimets, J. Stimets, H., assignor to self, Michael Tourney and John Eilder, Jr. John Eilder, Jr. Stiven, James M., assignor to self, Michael Tourney and
14. 14. 14. 14. 14. 14. 14. 14. 14. 14.	37,115 34,006	22222222222222222222222222222222222222	53

Less of patentees of treentions, draigns, and relseves, 1862.

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No.	Name.	Kestdence.	Invention or discovery.	Date.
36, 539 34, 530		New York, N. Y. Pleasant Mount, N. J.	Carriage tops and backs, shifting. Water-wheels, current	Sopt. 23, 1862. Mar. 4, 1862.
44.	Stock, James C., and James E. Emerson. Stockwoll, A., and B. D. Humes.	Trenton, N. J. Millbury, Mass.	Steel, process for making.	Jan. 7, Feb. 18,
88.5 188.5	Stokes, Benjamin S., assignor to sen and Win. II. Burwick Stone Med Stone of the sen and se	Manchester, N. 11	Ugurs and pipes, mouth-pieces for	Nov.
36 580	Stove, Winsor. (See Clow, Phillip R., assignor.)	Touton Mass		
88	Storms, History	Ann Arbor, Mich.		
48 33	Stover, Henry D., and W. W. Wood, assignors to Henry	Regritan, N. J. New York, N. Y.		April 29, 1862.
35, 402	Stover, H. D., and Edward S. Wright, assignors to Henry	New York, N. Y.	Sawing machines, scroll	June 3, 1862.
36, 33 36, 82 4.4	Stow William Stowell Churles, essignor to hinself and William M.	Utica, N. Y	Ordnance, breech-londing	July 29, 1862. Oct. 28, 1862.
36 979	Gaylord,	Philadelphia Pa	Stoel string of conservation for handening	Ang 10
(%) (%)		Philadelphia, Pa	Umbrellas and parasols, joints for ribs of	Aug. 19,
36.79	Stray, M. L. and O. A.	Willoughby, Ohio	Cincreinas and parasols, ups. 10f Fruit-baskets	Mar. 25,
3 3 3 3 3	Street, John W. Street, Zadok.	Salem, Ohio	Harvesters Roofing, cement and tile.	July 15, Nar. 11,
8.8. 8.8. 8.8.		Salem, Ohio Adrian, Mich	Brick and tile machines.	July 8, 1862. May 13, 1862.
	Amzl Chase. Streeter, L. (See Ammidon, John, assignor.)	:	;	
gitiz	Strong, Calvin A. Stat. (See Howe, Strong & Ross.)	Brooklyn, N. Y	Fences, earth, mode of building and coating	May 13,
868 37,63 ed b	Strong, Francis M., and Thomas Ross	Brandon, Vt.	Scales, platform	Oct. 14, 1862.
5	Strong, W. O.	Detroit, Mich.	Registers, wolghing.	Jan. 7,
130 130 130 130 130 130 130 130 130 130	Struve, F. G. L.	Jefferson, Wis	Grain in elevator bins, device for distributing	Mar. 25, 1862.
3,380	Stuart & Peterson. (See Martino & Horton, assignors.) Stuart, Lovi U.	Brooklyn N. V	Bellows	Feb. 11, 1862
Og				
8.8 8.8 8.8 8.8	Stump, George	New York, N. Y.	Saccharine liquids, evaporating pans for	July 8,
38.		Superior, Wis.	Anemometers	Ė
3		Boaton, Mass.	Shells, explosive fuze for.	July 20, 1460.
	-	Boston, Muss	Shelld, explosive fure for	ī

Comming & Swallow) Comming & Swallow) Swall Jacob Swart, Mana Woolt, Y. Tagliabue, John M Tagliabue, John M Tagliabue, Joseph Tagliabue, Jacob Tagliabu	Committee & Sew Libers Committee & Sew Lib	Companie y & Servation Companie y & Servat	36, 116 36, 116 36, 443	Billy the state of	Doston, Mass Educ Mo Hoston, Mass New York, N. Y.	Projectibs for iffuel ordnance. Rowning out the burrols of ships pumps, instrument for Spormatorities, rules, combination. Softs and Yessels lorts, combination.	Aug. Doc. 6	: 41 5 1 1 1 1 2 1 1 1 1 2
Swan Judgeson Boules Bou	Swan Jufferson L. Value	Seven Johnson Seven Johnson Seven Johnson Seven Johnson Seven Johnson Seven Johnson Seven Johnson Seven Johnson Seven Johnson Seven Johnson Seven Johnson Seven Johnson Seven Johnson Seven Se		w.)	1			:
Section Control of the Control o	Prop. Nat.	Prop. March 2004 Prop. March	Ŝ.	Swan, James S.	Mongaup Valloy, N. T	Vehicler, wheeled, holdbacks for	Sept	
Particle Particle	Second Color Color	Secondary Colored Co	3	Swap, Jefferson L.	Della dela bia	Elfourniss	April	
Section Coloration Colora	Service Misse Berring Berring Berring Misser Berring Berring Misser Berring Berring Misser Berring Berring Misser Berring Berring Misser Berring B	Service Misso Service Service Misso Service	3	SWELL, Marchian	Filliation plans, Farman	Harmandare (Palenter)	י או	
Sevent Miles Seve	Providence Pro	Proof. No. 2 Proof. No. 2 Proof. No. 2 Proof. No. 2	315	Strengto Inch	Enfelo X V	(Belgero)	9 1	
Sweet, Original Sweet, William A. Brytidenes, M. Y. Brother, M. S. Brytidenes, W. Y. Brytidenes, W. Y. Brytidenes, W. Y. Brytidenes, W. Y. Brytidenes, W. Y. Brytidenes, W. Y. Brytidenes, W. W. Brother, W. W. Brother, W. W. Brother, W. W. Brother, W. W. Brytidenes, W. W. Brytidenes, W. W. Brytidenes, W. W. Brytidenes, W. W. Brytidenes, W. W. Brytidenes, W. W. Brytidenes, W. W. Brytidenes, W. W. Brytidenes, W. W. Brytidenes, W. W. Brytidenes, W. Brytidenes, W.	Sweet, Wilson & Green, Wilson & Control of the Cont	Sevent Control of March Street Control of March Stre	315	Swarts, Jacob	Buffalo, N. Y.		1	
Sweet Other and Morrill E. Hidde Sweet Other and Morrill E. Hidde Sweet Other Activates M. W. Bronne M. Bronne M. W. Bronne M	Sweet, William & Merrill E. Holds. Sweeton, Cast. Fort & Monroe, audgeort to Interestivate. Sweeton, William & Merrill E. Holds. Sweeton, William & Merrill E. Holds. Sweeton, William & Merrill E. Holds. Sweeton, William & Merrill E. Holds. Sweeton, William & Merrill E. Holds. Sweeton, Cast. Sweeton & Monroe, audgeort & Monroe, audgeor	Sweet, William & Merrill E. Holds. Sweeter, Cont. and Merrill E. Holds. Sweeter, William & Merrill E. Holds. Sweeter, William & Merrill E. Holds. Sweeter, William & Merrill E. Holds. Sweeter, William & Merrill E. Holds. Sweeter, William & Merrill E. Holds. Sweeter, William & Merrill E. Holds. Swift, Alexander, Saatgoort blands. Swift, Alexander, Saatgoort blands. Swift, Alexander, Saatgoort blands. Swift, Alexander, Sweeter, Barrilla & Contradiction of Merrilla & Contradiction of Merrilla & Merrilla & Contradiction of Merrilla & Merrilla & Contradiction of Merrilla & Merrilla	2	Sweet, Milos	Trow, N. Y.		30	
Seveet, William A. Syreates, N. W. Hoopen Streets, N. W. Hoopen Streets, N. W. Hoopen Streets, N. W. Hoopen Streets, N. W. Hoopen Streets, S. S. W. M. Hoopen Streets, S. S. S. S. S. S. S. S. S. S. S. S. S.	Seveet, William A. Syreates, N. W. Hoonen Charlestovn, Mass Swith, Accandict (See Frost & Mootes, P. W. Hoonen Charlestovn, Mass Swith, Accandict (See Frost & Mootes, P. W. Hoonen Charlestovn, Mass Swith, Accandict (See Frost & Mootes, P. W. Hoonen Charlestovn, Mass Swith, Accandict (See Frost & Mootes, P. W. Hoonen Charlestovn, Mass Swith, Allon Swith, Swi	Sevent, William A. Syreaten, N. W. Hoton Structure, N. W. Hoton Structure, N. W. Hoton Structure, N. W. Hoton Structure, M. W. Hoton Structure, Sev. Prot. & Wolcott, V. M. Hoton Structure, Sev. Prot. & Wolcott, V. M. Hoton Structure, Sev. Sev. Pouning, Daniel, Sev. Sev. Pouning, Sev. Sev. Pouning, Sev. Sev. Pouning, Sev. Sev. Pouning, Sev. Sev. Pouning, Sev. Sev. Pouning, Sev. Sev. Pouning, Sev. Sev. Pouning, Sev. Sev. Pouning, Sev. Sev. Pouning, Sev. Sev. Pouning, Sev. Sev. Pouning, Sev. Sev. Pouning, Sev. Sev. Pouning, Sev. Pouning, Sev. Sev. Pouning, Sev. Sev. Pouning, Sev. Sev. Pouning, Sev. Sev. Pouning, Sev. Sev. Pouning, Sev. Sev. Pouning, Sev. Pouning, Sev. Sev. Pouning, Sev. Sev. Pouning, Sev. Sev. Pouning, Sev. Sev. Pouning, Sev. Sev. Pouning, Sev. Sev. Pouning, Sev. Pouning, Sev. Sev. Pouning, Sev. Sev. Pouning, Sev. Sev. Pouning, Sev. Sev. Pouning, Sev. Sev. Pouning, Sev. Sev. Pouning, Sev. Sev. Pouning, Sev. Sev. Pouning, Sev. Sev. Pouning, Sev. Sev. Pouning, Sev. Sev. Pouning, Sev. Sev. Pouning, Sev. Sev. Pouning, Sev. Sev. Pouning, Sev. Sev. Pouning, Sev. Sev. Pouning, S	015	Sweet, Orrin, and Merrill E. Hicks	Providence, R. I.	Pumps, rotary, packing for	No.	
Sweeney Chee, B. sastgoort, B. sastgoort, B. Sweeney Chee, B. sastgoort, B. Sweeney Chee, B. Sweeney B. Sweeney Chee, B. Swee	Sweeney Cheek B. Sangtoner) Swith Altanon Sweeney Cheek B. Sangtoner) Swith Altanon Swith Daniel W. West Palmonth, Mass Swith Altanon Swith Daniel West Palmonth, Mass Swith Daniel West Palmonth, Mass Swith Daniel West Palmonth, Mass Swith Daniel Swith Daniel Swith Daniel Swith Daniel Swith Daniel Swith Sw	Sweeney Change and Win. W Booken Chairman Charlestown, Mass Sweeney Change and Win. W Booken Chairman Charles Sweeney Change and Sweeney Change Charles Swith Almon Charles Swith Charles Swith Almon Charles Swith Charle	8	Sweet, William A	Syracuse, N. Y.	Saws, scroll	di.	
Swift, Antexander. (See Frost & Monto, assignor.) Swift, Antexander. (See Frost & Monto, assignor.) Swift, Antexander. (See Frost & Monto, assignor.) Swift, Daniel W West Palmonth, Mass Swift, Daniel W Tykes, J. W. F. Takes, J. Comparating machines Swift, Daniel W Tykes, J. W. F. Takes, J. Comparating machines Swift, Daniel W Tykes, J. W. F. Takes, J. Comparating machines Swift Beliabute. John W Westrown, Mass Swift Beliabute. John New York, N. Y Watertown, Mass Swift Beliabute. John Westrown, John Westrown, Mass Swift Beliabute. John Westrown, Mass Swift Beliabute. John Westrown, Mass Swift Beliabute. John Westrown, Mass Swift Beliabute. John Westrown, Mass Swift Beliabute. John Westrown, Mass Swift Beliabute. John Westrown, Mass Swift Beliabute. John Westrow	Swift Alexander. (Not Front & Montott, V. L. Montott, V. L. Montott, V. Cornschellers and dryen, grain, fosting. Jan. 28, Clothes Printing and dryen, grain, fosting. Jan. 28, Clothes Printing and dryen, grain, fosting. Jan. 24,	Work Alexander. (Note Front & Month, W. H. Alexander.) Swift, Alexander. (Note Front & Month, W. H. Alexander.) Swift, Daviel W. Heart Alexander. (Note Front & Month Mass.) Swift, Daviel W. Heart Behavior, M. H. H. A. A. A. See Road International diverse in the Special Science of the Special Sc	200	Sweeney, Chas. E., assignor to himselfand Wm. W. Hooten	Charlestown, Mass	Knapseck	Feb.	1862 2
Swift Amont We dotted, Amont We dotted, Amont April 25 Tykes Jan. 25 1000 metaler April 15 Tykes John 18 1000 metaler April 15 Taber, John M Glesawich M New York N Y Taber, John M Backstrone, Mass Pegatric John 19 Taggard, John New York N Y John 19 Taggard, John Masteroven, Mass Dampers, wordstand Dampers, wordstand Taggard, John Masteroven, Mass Masteroven, Mass Dampers, wordstand Taggard, John Masteroven, Mass Masteroven, Mass Dampers, wordstand Taggard, John Masteroven, Mass Masteroven, Mass Masteroven, Mass Taggard, John Masteroven, Mass Masteroven, Mass Masteroven, Mass	Swift Amont Woolcook III. Mass Contractions April 25	Swill Almoin Wootest, Vi. Almoin Wootest, Vi. Almoin Wootest, Vi. Almoin Wootest, Vi. Almoin Wootest, Vi. Almoin Wootest, Vi. Almoin Wootest, Vi. Almoin Wootest, Vi. Almoin Wootest, Vi. Almost Cheere, Control of Character, Control of Character, Control of Character, Characte	0.0	Swift, Alexander. (See Frost & Monroe, angignora.)	1		_	
Weit Pannet W Chicago III Taber, John M Taber, J	Partie December	Partie Date Partie Date Partie Date Partie Date Partie Date Partie Date Partie Date	216	:	Wolcott, Vt.	Corn-shellers	April 8,	
Tables of the Name	Tables December Concesses December Concesses December	Juliah Market M	98	Swill, Daniel W	West Falmouth, Mass	Clothes-wringing machine		100
Talinter George Talint	Section of the Part Part	Secondary Continue	3	Tykes, J. W.	Chicago, Ill.	Elevators and dryers, grain, nosting.	April 13,	100
Pergration Per	Pegging machines Pegging mac	Securities Pregring mechanists Pregrin	3	Taber, John M.	Greenwich, N. Y.	Elevators, huy	April 23	
Tagging machine Pagent John Pagent John Pagent maken Pagent machine Pagent mach	Tagilabue, John Perry York, N. Y Perry Guispen Persisting machine Persisting machine Persisting machine Persisting Persisting machine Pers	Pagging machine, Guiseppe Discript of Mass Pagging machine Discript of Mass Pagging machine Discript of Mass Pagging machine Discript of Mass Discr	3		Blackstone, Mass	Pessaries	_	
Tagliabus, Guiseppe. Tagliabus, Guiseppe. Tagliabus, Guiseppe. Talliatr. George. Tall	Tagliabue, Guiseppe	Tagliabue, Guiseppe Now York, N. Y. Oil, coal, apparents for testing Bept 18. Tagliabue, Guiseppe Now York, N. Y. Tagliabue, Guiseppe Now York, N. Y. Tagliabue, Guiseppe Now York, N. Y. Tagliabue, Guiseppe Now York, N. Y. Tagliabue, Guiseppe Now York, N. Y. Tagliabue, Guiseppe Now York, N. Y. Tagliabue, Guiseppe Now Now York, N. Y. Tagliabue, Guiseppe Now York, N. Y. Tagliabue, Guiseppe Now York, N. Y. Tagliabue, Guiseppe Now York, N. Y. Tagliabue, G. Tagliabu	2	Taggart, John	Roxbury, Mass	Pegging machines	_	
Talinter, George Talint	Tagliabur, John Tagliabur, John Tagliabur, John Tagliabur, John Tagliabur, John Tagliabur, John Tagliabur, John Tagliabur, John Tagliabur, John Talliatur, George Talliatur, George Talliatur, George Talliatur, George Talliatur, George Talliatur, George Talliatur, George Talliatur, George Talliatur, John Talliatur, Juliatur, Jul	Tagliabue, John Tagliabue, John Tagliabue, John Tagliabue, John Talliater, George Talliater, Cheorge Talliat	8	Tagliabue, Guiseppe		Oil, coal, apparatus for testing.	_	
Tailiter, George. Tailiter, George. Wastrown, Mass. Tailiter, George. Wastrown, Mass. Tailiter, George. Wastrown, Mass. Tailiter, George. Wastrown, Mass. Tailiter, George. Wastrown, Mass. Tailiter, George. Wastrown, Mass. Tailiter, George. Wastrown, Mass. Tailiter, George. Wastrown, Mass. Tailiter, Gorge. Tailiter, Gorge. Tailiter, Gorge. Wastrown, Mass. Tailiter, G. W. Ta	Tainter, George Tainter, Georg	Tailteir, George Tailteir, J. Tailteir, J.	88	Tagliabue, John	'	Oil, coal, apparatus for tosting.	_	
Tulliedrer, George. Tulliedrer, Nicholas Tulliedrer, Tullias Tulliedrer, Tullias Tulliedrer, Tullias Tulliedrer, Tullias Tulliedrer, Tullias Tulliedrer, Tullias Tulliedrer, Tullias Tulliedrer, Tullias Tulli	Tainter, George Tainter, George Tainter, George Tainter, George Tainter, George Tainter, Country Tainter, Country Tainter, Country Tainter, Country Tainter, Country Tainter, Chooke Tainter,	Tainter, George Tainfarrow, S. Waserlown, Mass Tainfarrow, S. Waserlown, Mass Tainfarrow, S. Waserlown, Mass Tainfarrow, S. Waserlow, Mass Tainfarrow, S. Waserlow, S. See Fainfard Tabler, John A., (See Fainfard) Tainfarrow, S. Waserlow, S. Erstingench Tainfarrow, S. Waserlow, S. Erstingench Tainfarrow, S. Waserlow, S. Erstingench Tainfarrow, S. Waserlow, S. Erstingench Tainfarrow, S. Waserlow, S. Erstingench Tainfarrow, S. Waserlow, S. Erstingench Tainfarow, g	Tainter, George	9	Dampers, ventilating.	-		
Tallinderro, C. W. Tallinderro, C. W. Tallinderro, C. W. Tallinderro, C. W. Tallinderro, C. W. Tallinderro, Micholas Tallinderro, Micholas Tallinderro, Micholas Tallinderro, Micholas Tallinderro, Micholas Tallinderro, Micholas Tallinderro, Micholas Tallinderro, Micholas Tallinderro, Micholas Tallinderro, Micholas Tanniery William Tanniery William Taplin, Albert Ta	Tallinderro C. W. Tallinderro C. W. Tallinderro C. W. Tallindero C. W. Tallindero C. W. Tallindero C. W. Tallindero C. W. Tallindero C. W. Tallindero C. W. Tallindero C. W. Tallindero C. W. Tallindero C. W. Tallindero C. W. Tallindero C. W. Tallindero C. W. Tallindero C. W. Tallindero C. M. Tal	Tailuterro, Nicolay Tailuterr	E	Tainter, George	Watertown Mass	Dampara ventilating		1862
Tulidron Nicholas Tulidron Nich	Tainderro Nicholas Tainderro Nicholas Tainderro Nicholas Tainderro Nicholas Taured Nich	Tulinderno, Nicholasa Tulinderno, Nicholasa Tulinderno, Nicholasa Tulinderno, Nicholasa Tulinderno, Nicholasa Tuninderno, Nicholasa Tuninderno, Nicholasa Tuninderno, Nicholasa Tuninderno, Nicholasa Tuninderno, Nicholasa Tuninderno, J. H. Tuninderno, J. Tu	33	Taliaforro, C. W.		Cultivators		1862
Tunier, Joseph A. Tunier, Joseph A. Tunier, J. Joseph A. Tunier, J. H. Tunier, J. Tunier, J. H. Tunier, J. Tu	Tunier, Joseph A. Tunier, Joseph A. Tunier, Joseph A. Tunier, Joseph A. Tunier, Joseph A. Tunier, Joseph A. Tunier, Joseph A. Tunier, Joseph B. Tunier, J. H. Tunier, J.	Tunner, Joseph A. Severing matchines, hand July 1. Tunner, Juny 1. Tunner, Juny 1. Tunner, Juny 1. Tunner, Juny 1. Tunner, Juny 1. Tunner, Juny 1. Tunner, Juny 1. Tunner, Juny 1. Tunner, Juny 1. Tuny June 1. Tuny Juny 1. Tuny June 2. See Dearborn G. K., assignor.) Providence, R. I. Lamps, coal-oil, burners for Lamps, coal-oil, burners for Lamps, Coal-oil, June 10. Lamps, Coal-oil, June 10. Lamps, Coal-oil, June 10. Lamps, Coal-oil, June 10. Lamps, Coal-oil, June 10. Lamps, Coal-oil, June 10. Lamps, Coal-oil, June 10. Lamps, Lusy June 3. Lighter, July June 3. Lighter, July June 3. Lighter, July June 3. Lighter, July June 3. Lighter, July June 3. Lighter, July July June 3. Lighter, July July July July July July July July	12.	Taliaforro, Nicholas.		Ordnance, revolving	_	1961
Tunner, J. H. Tunner, J. Tunner, J. H. Tunner, J. Tunner, J. Tunner, J. Tunner, J. H. Tunner, J. Tunner,	Tanquary David Tanquary David Tanquary David Tanquary David Tanquary David Tanquary David Tanquary David Tanquary David Tanquary David Tanquary David Tanquary David Tanquary David Taplin, Albert Taplin, Albert Taplin, Albert Tathan, Charles B. Tathan, Charles B. Tathan, Charles B. Tathan, Charles B. Tawines J. M. H. A. Taylor, A. (See Rull) Taylor, A. (See Rull) Taylor, A. (See Rull) Taylor, A. (See Rull) Taylor, A. (See Rull) Taylor, A. (See Rull) Taylor, A. (See Rull) Taylor, A. (See Rull) Taylor, A. (See Rull) Taylor, A. (See Rull) Taylor, A. (See Rull) Taylor, A. (See Rull) Taylor, A. (See Rull) Taylor, A. (See Rull) Taylor, Banes B. (See Fullexman, Edwin, assignor.) Taylor, James B. (See Pounts) Taylor, James B.	Tuniuc', J. H. Tuniucy, William Tuniucy, Tuniucy, Erasitus Tuniucy, Erasitus Tuniucy, John, and R. W. Ernstrong Tuniucy, William Tuniucy, William Tuniucy, William Tuniucy,	8			Sewing machines, hand	July 1,	1862
Tanquary, David Tanquary, Massignor, January, A. (See Founing, January, Massignor) Taylor, A. (See Founing, January, Massignor) Taylor, January, January, See Founing, January, Massignor) Taylor, January, January, January, Massignor, Taylor, A. (See Founing, January, Massignor) Taylor, January, January, January, Massignor, Taylor, January, January, Taylor, January, January, Taylor,	Tunquary David Tunquary David	Tanglary, David Tanglary, Maxim Tangla	83	Tunner, J. H.		Paper, machine for folding and stitching.	Sept. 9,	1662
Tanaloy William Tanaloy William Tapiloy, J. F. Tapilo, Abrilliam Tapilo, Abrilliam Tapilo, Abrilliam Tapilo, Abbert Tapilo, Abbert Tapilo, Abbert Tapilo, Abbert Tapilo, Abbert Tapilo, Abbert Tapilo, Abbert Tapilo, Abbert Tabilo, Abbert Tanaber, John A., and Frederick Franck. (See Muller, Julius J. M. H. A. Tawrines, J. M. H. A. Tawrines, J. M. H. A. Tawrines, J. M. H. A. Tawrines, J. M. H. A. Tawrines, J. M. H. A. Tawrines, J. M. H. A. Tawrines, J. M. H. A. Tawrines, J. M. H. A. Tawrines, J. M. H. A. Taylor, Abrilo, Aboner E. sasignor.) Taylor, James S. (See Founding James, assignor.) Taylor, John and R. W. Brown Taylor, John and R. W. Brown Taylor, John and R. W. Brown Taylor, John and Abanes W. Armstrong (See Armstrong Westerly, R. I. Taylor, John and Abanes W. Armstrong (See Armstrong Westerly, R. I. Taylor, John and Abanes W. Armstrong (See Armstrong Westerly, R. I. Taylor, John and R. W. Brown Taylor, John and Abanes W. Armstrong (See Armstrong Westerly, R. I. Taylor, John and R. W. Brown Taylor, John and Abanes W. Armstrong (See Armstrong Westerly, R. I. Taylor, John and R. W. Brown Taylor, John and R. W. Brown Taylor, John and R. W. Brown Taylor, John and R. W. Brown Taylor, John and R. W. Brown Taylor, John and R. W. Brown Taylor, John and R. W. Brown Taylor, John and R. W. Brown Taylor, John and R. W. Brown Taylor, John and R. W. Brown Taylor, John and R. W. Brown Taylor, John and R. W. Armstrong (See Armstrong Westerly, R. I. Taylor, John and R. W. Brown Taylor	Tunicy William Tunicy William Tunicy William Tunicy William Tunicy William Tunicy J. F. Tunicy J. F. Tunicy J. F. Tunicy J. F. Tunicy J. F. Tunicy J. F. Tunicy J. F. Tunicy J. F. Tunicy J. F. Tunicy J. F. Tunicy J. F. Tunicy J. F. Tunicy J. F. Tunicy J. A. Tunicy J. Tunicy J. T	Tunicy William Tunicy William Tunicy William Tunicy William Tunicy William Tunicy William Tunicy J. F. Tunicy Library Tunicy J. F. Tunicy Library Tunicy Lib	폵	Tanquary, David.		Stump-extractors	Mer. 25	
Tabley J. F. Tabley Samuel T. (See Dearborn, G. K., sasignor.) Tabley Samuel T. (See Dearborn, G. K., sasignor.) Tabley Samuel T. (See Gill, H. B., sasignor.) Tarbon, Leannes See Gill, H. B., sasignor.) Tarbon, Londones, R. I. Tarbon, Londones, R. I. Tarbon, Londones, R. I. Tarbon, Londones, R. I. Tarbon, Londones, R. I. Tarbon, Londones, See Fittegrand, Daniel, sasignor.) Tarbon, Londones, See Fee Fee Fee Fee Fee Fee Fee Fee Fee	Tupley J.F. Tupley J.F. Tupley Samuel T. (See Dearborn, G.K., assignor.) Tupley Samuel T. (See Dearborn, G.K., assignor.) Tuplin, Aberta Turbox, Eberta Turb	Tapley J.F. Thirlie, J. Thirlie,	9 4	Tunsley, William.	Salishury Centre N. Y	Horses' hoofs, tools for paring.	_	_
Tabley, Samuel T. (See Dearborn, G. K., assignor.) Tablin, Albert Tablin, Albert Tablin, Albert Tablin, Albert Tablin, Albert Tatham, Charles B. (See Fitzgerald, Daniel, assignor.) Julius J. M. H. A. (See Miller, France, George, and James Lusty Taylor, A. A. (See Rolling, James, assignor.) Taylor, Albert S. (See Rolling, James, assignor.) Taylor, James S. (See Blackman, Edwin, assignor.) Taylor, John, and R. W. Brown Westerly, B. I. Taylor, John, and R. W. Brown Taylor, John, and Alanes W. Armstrong (See Armstrong Westerly, B. I. Taylor, John, and James W. Armstrong (See Armstrong Westerly, B. I. Taylor, John, and James W. Armstrong (See Armstrong Westerly, B. I. Taylor, John, and James W. Armstrong (See Armstrong Westerly, B. I. Taylor, John, and James W. Armstrong (See Armstrong Westerly, B. I. Taylor, John, and James W. Armstrong (See Armstrong Westerly, B. I. Taylor, John, and R. W. Brown Taylor, John, and James W. Armstrong (See Armstrong Westerly, B. I. Taylor, John, and R. W. Brown Taylor, John, and Taylor, John, and James W. Armstrong (See Armstrong Westerly, B. I. Taylor, John, and R. W. Brown Taylor, John, and R. W. Brown Taylor, John, and Taylor, John, and James W. Armstrong (See Armstrong Westerly, B. I. Taylor, John, and R. W. Brown Taylor, John, and R. W. Brown Taylor, John, and R. W. Brown Taylor, John, and R. W. Brown Taylor, John, and R. W. Brown Taylor, John, and Taylor, John, and R. W. Brown Taylor, John, and R. W. Brown Taylor, John, and R. W. Brown Taylor, John, and R. W. Brown Taylor, John, and R. W. Brown Taylor, John, and R. W. Tawatrong (See Armstrong Westerly, R. I. Taylor, John, and R. W. Brown Taylor, John, and R. W. Brown Taylor, John, and R. W. Brown Taylor, John, and R. W. Tawatrong (See Armstrong Westerly, R. I.) Taylor, John, and R. W. Tawatrong (See Armstrong Westerly, R. I.)	Tabley's Samuel T. (See Dearborn, G. K., assignor.) Tabley, Samuel T. (See Dearborn, G. K., assignor.) Tabley, Shares S. (See Gill, H. B., assignor.) Tauthan, Obrates B. (See Fitzgerald, Daniel, assignor.) Tavior, Hortz, Ohn A., (See Rend, Daniel, assignor.) Taylor, Hortz, C. (See Allen, Daniel, assignor.) Taylor, James S. (See Rend, Daniel, assignor.) Taylor, James S. (See Rend, Daniel, assignor.) Taylor, James S. (See Allen, Daniel, assignor.) Taylor, James S. (See Blackman, Edwin, assignor.) Taylor, James S. (See Blackman, Edwin, assignor.) Taylor, James S. (See Blackman, Edwin, assignor.) Taylor, John, and R. W. Brown Taylor, John, and R. W. Brown Taylor, John, and Amatrong. (See Armstrong.) Taylor, John, and Amatrong. (See Armstrong.) Taylor, John, and Amatrong. (See Armstrong.)	Tablery, Samuel T. (See Dearborn, G. K., assignor.) Tablin, Albert Tablin, Albert Tablin, Albert Tablin, Albert Tablin, Albert Tatham, Charles B. (See Gill, H. B., assignor.) Tatham, Charles B. (See Fitzgerald, Daniel, assignor.) Julius J. M. H. A. (See Rend, Dan. assignor.) Taylor, A. A. (See Rend, Dan. assignor.) Taylor, George, and James Lusty Taylor, James S. (See Fouling, James, Lusty) Taylor, James S. (See Fouling, James, Lustrong.) Taylor, John, and R. W. Erown. Taylor, John, and R. W. Erown. Taylor, John, and R. W. Erown. Taylor, John, and James W. Armstrong. (See Armstrong.) Taylor, John, and James W. Armstrong. (See Armstrong.) Taylor, John, and James W. Armstrong. (See Armstrong.) Taylor, John, and James W. Armstrong. (See Armstrong.) Taylor, John, and James W. Armstrong. (See Armstrong.) Taylor, John, and James W. Armstrong. (See Armstrong.)	<u> </u>	Tapley, J. F.	Springfield Mass	Printing and cutting davice	_	
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Taplin, Albert Turbox, Eratus. (See Gill, H. B., assignor.) Turbox, Eratus. (See Fittgerald, Daniel, assignor.) Turbox, Darles B. (See Fittgerald, Daniel, assignor.) Turbox, Obarles J. A. (See Miller) Taylor, A. A. (See Rond, Dan, assignor.) Taylor, A. A. (See Ronding, James, Ger Vittgerance, Taylor, A. (See Ronding, James, Ger Vittgerance, Taylor, A. (See Ronding, James, Ger Vitterance, James B. (See Ronding, James, Ger Vitterance, James B. (See Ronding, James, Ger Vitterance, James B. (See Blackman, Edwin, assignor.) Tuylor, John, and R. W. Brown Taylor, John, and James W. Armstrong. (See Armstrong. (See Armstrong. Magnolia, III.) Taylor, John, and James W. Armstrong. (See Armstrong. Magnolia, III.) Taylor, John, and James W. Armstrong. (See Armstrong. Magnolia, III.) Taylor, John, and James W. Armstrong. (See Armstrong. Magnolia, III.) Taylor, John, and James W. Armstrong. (See Armstrong. Magnolia, III.) Taylor, John, and R. W. Brown. Magnolia, III.	Tablin, Albert Turbox, Eratus (See Gill, H. B., assignor.) Tutham, Obaries B. (See Fittgerald, Daniol assignor.) Tablam, Obaries B. (See Fittgerald, Daniol assignor.) Tablam, Jan. H. H. A. (See Road, Dani assignor.) Taylor, Hoorge, and James B. (See Allen Cabrer E. assignor.) Taylor, Hoorge, and James B. (See Allen Cabrer E. assignor.) Taylor, Janue S. (See Allen Cabrer E. assignor.) Taylor, Janue S. (See Built, Janue S. (See	Taplin, Albert Tabler, Denies B. (See Gill, H. B., assignor.) Thatham, Obarles B. (See Fitzgerald, Danie) assignor.) Thatham, Obarles B. (See Fitzgerald, Danie) assignor.) Taylor, A. (See Rond, Dan, assignor.) Taylor, George, and James Lusty Taylor, George, and James Lusty Taylor, George, and James B. (See Pointing, James, assignor.) Taylor, James B. (See Pointing, James, assignor.) Taylor, James B. (See Pointing, James, assignor.) Taylor, John and R. W. Brown Westerly, B. I. Taylor, John and James W. Armstrong. (See Armstrong. Being May Judyer, John and James W. Armstrong. (See Armstrong. Being May Judyer, John and James W. Armstrong. (See Armstrong. Being May Judyer, John and James W. Armstrong. (See Armstrong. See Pointing, Judyer, John and James W. Armstrong. (See Armstrong. Being May Judyer, John and James W. Armstrong. (See Armstrong. See Pointing, Judyer, John and James W. Armstrong. (See Armstrong. See Pointing, Judyer, John and James W. Armstrong. (See Armstrong. See Pointing, Judyer, John and James W. Armstrong. (See Armstrong. See Pointing, Judyer, John and James W. Armstrong. (See Armstrong. See Pointing, Judyer, John and James W. Armstrong. (See Armstrong. See Pointing, Judyer, John and James W. Armstrong. (See Armstrong. See Pointing, Judyer, John and James W. Armstrong. (See Armstrong. See Pointing, Judyer, Judyer, John and James W. Armstrong. (See Armstrong. See Pointing, Judyer)	250		Doneldence B T	Lamps and humans for	June 10	1962
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Tauber, John A., and Frederick France. (See Muller, John A., and Frederick France.) Tawrines, J. M. H. A. (See Rend, Dan, assignor.) Taylor, A. (See Rend, Dan, assignor.) Taylor, George, and James Lusty Taylor, H. et al. (See Allen Choster F., assignor.) Taylor, James S. (See Benning, James, assignor.) Taylor, John S. (See Benning, James, assignor.) Taylor, John and R. W. Brown Westerly, R. I. Lighter, bydrogen, Dobersines May Lighter, bydrogen, Dobersines Mov.	Tauber, John A., and Frederick Franck. (See Muller, John A., and Frederick Franck. (See Muller, John A., and Frederick Franck. (See Muller, July Parts, Prance, July H. H. A., See Read, Dan, sasignor.) Taylor, A. A. (See Read, Dan, sasignor.) Taylor, George, and James S. (See Ponning, James S. (See Ponning, James B. (See Ponning, James B. (See Ponning, James B. (See Ponning, James B. (See Ponning, James B. (See Blackman, Edwin, assignor.) Taylor, John, and R. W. Brown. Taylor, John, and R. W. Brown. Taylor, John, and James W. Armstrong. (See Armstrong.) English J. J. J. J. J. J. J. J. J. J. J. J. J.	Tauber, John A., and Frederick France. (See Muller, John A., and Frederick France, See Muller, Julius J. assignor.) Taylor, A. A. (See Read, Dan, assignor.) Taylor, James S. (See Allen Chorier E. assignor.) Taylor, James S. (See Penning, James, assignor.) Taylor, James S. (See Read, Dan, assignor.) Taylor, James S. (See Benning, James, assignor.) Taylor, James S. (See Benning, James, assignor.) Taylor, John, and R. W. Brown Westerly, R. I. Taylor, John, and James W. Armstrong. (See Armstrong, See ;	∷`	_	Denne, and appearance for company	ì	•	
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Taylor, Horizon, March Lung, American Lung, Lung	Taylor, H. et al. Magnetic Library Contents and State Library Contents Library Contents Library Contents Library Contents Library Contents Library Contents Library Contents Library Contents Library Contents Library Contents Library Contents Library Contents Library Contents Library Contents Library Contents Library Library Contents Library Cont	Taylor, H. et al., Machanan, Lasignor.) Taylor, James S. (See Allen Chorter F., assignor.) Taylor, James S. (See Blackman, Edwin, assignor.) Taylor, John, and R. W. Brown Taylor, John, and James W. Armstrong. (See Armstrong. See Armstrong. See Armstrong. See Armstrong. See Armstrong. Taylor, John, and James W. Armstrong. See Armstrong	- 1	Taylor, A. A. (See Ivella, Dan, amignor.)				800
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Taylor, John and James W. Armstrong. (See Armstrong)	Taylor, John, and James W. Armstrong. (See Armstrong & Theory.)	Paylor, John, and James W. Armstrong. (See Armstrong • 4. Toplor.)	14	Brown			Nov. 18	1862
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Last of patentoes of twentions, designs, and reissues, 1862.

	Матъе.	Residence.	Invention or discovery.	Dato.
88,539 88,453 86,453 87,600 87,000 87,000 87,000 87,000	Stivers, R. M., and G. W. V. Smith. St. John, William W. Stock, James C., and James E. Emeron. Stock, James G., and J. Dirmes. Stock, Judian B., assignor to self and Wm. II. Burwick. Stokes, Benjamin S., assignor to self and Wm. II. Burwick. Stone, Joel. Stone, M. F.	New York, N. Y. Pleasant Mount, N. J. Trenton, N. J. Mallibury, Mass. Manchester, N. H. Gleveland, Ohlo	Carriage tops and backs, shifting. Water-wheels, current. Bosel, process for making. Come. Clears and pipes, month-pieces for Clears and pipes, month-pieces for Savar. machine for cumuting.	Bept, 23, 1862, Mar. 4, 1862, Jan. 7, 1862, Feb. 18, 1862, June 3, 1862, Nov. 4, 1863, Nov. 25, 1863,
8 8888 8859	Stove, Winsor. (See Clow, Phillip R., assignor.) Storer, J. J., and James D. Whelpley. Stour, Jiran. Stout, Jacob W. Derry, J. W. Wood, assignors to Henry Derry, D., and W. W. W. Wood, assignors to Henry	Boston, Mass. Ann Arbor, Mich Baritan, N. J. New York, N. Y.	Jo 83	સુત્રુ _થ ્યું
85.4 82.4	Stover, H. D., and Edward S. Wright, assignors to Henry D. Stover. Stove, William Stowell, Charles, essignor to himself and William M.	New York, N, Y Ulter, N, Y Concord, Mass	Sawing machines, scroll. Ordinance, breech-londing. Electrical currents, blasting by	June 3, 1862. July 29, 1862. Oct. 28, 1862.
88888888	Strutton, Richard A., assignor to G. W. Carr & Co. Strutton, Richard A., assignor to G. W. Carr & Co. Strutton, Land O. A. Strey, M. L. and O. A. Street, John W. Street, John W. Street, Zadok Street, Alonzo, assignor to self, Thomas Farrar and	Philadelphia, Pa. Philadelphia, Pa. Philadelphia, Pa. Philadelphia, Pa. Willoughby, Ohio Salem, Ohio Salem, Oho Salem, Oho Adrian, Mich.	Steel, strips of, apparatus for hardening. Umbrellas and parasols, joints for ribs of Umbrollas and parasols, tips for Fruit base and parasols, tips for Routing, cement and tile Strick and tile machines. Planters, corn.	Aug. 19, 1963. Aug. 19, 1862. Aug. 19, 1862. Mar. 25, 1862. Mar. 11, 1863. July 8, 1863. May 13, 1863.
88		Brooklyn, N. Y	Fences, earth, mode of building and coeting	May
58588 8	T pui	Brandon, Vt. Washington, D. C. Detroit, Mich. Detroit, Mich.	Scales, platform Fire-arm, breech-loading. Registers, weighing. Grain in elevator bins, device for distributing Backs, feed	Oct. 14, 1862. Dec. 16, 1862. Jan. 7, 1862. Neb. 11, 1862. Mar. 25, 1862.
1 2 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Stutble, Z. (See Hornaday, Nelson, nasignor.) Stutble, Z. (See Hornaday, Nelson, nasignor.) Hump, George, R. (See Feesler, Stophen M., assignor.) Hump, George R. Statut George R. Stutterast, Headmain F. Stutterast, Headmain F. Stutterast, Headmain F. Stutterast, Headmain F. Stutterast, Headmain F. Stutterast, Headmain F. Stutterast, Headmain F.	New York, N. Y Superior, Wis Barton, Mass Institution, Mass Institution, Mass	Baccharine liquids, evaporating pans for Anemometers Anoper, proparation of Rhole per, proparation of Rhole per, proparation of Rhole per, proparation of Rhole per, proparation for Rhole per, proparation for the for- Rhole per, or proparation for the fore- Rhole per, or proparation for	הרכים ביים ביים ביים ביים ביים ביים ביים ב

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Projectibes for rilled ordinance Homming out the burrels of ships pumps, instrument for portuatoribon rings Softs and vessols burth, combination	Vehicles, wheeled, holdbacks for Fire-arms Bollers steam, of cinders, relieving (Relieue) Harvesters (Relieue) Harvesters (Relieue) Ourry-combs Ourry-combs Sawa, scroll Knapsack		Lamps, coal-oil, burners for		Balances, spring	Lighter, hydrogen, Dobereiner
Doston, Mass Edina, Mo Boston, Mass New York, N. Y	Mongaup Valloy, N. Y. Lowville, N. Y. Philadalphia, Pa. Buffalo, N. Y. Buffalo, N. Y. Troy, N. Y. Troy, N. Y. Providence, R. I. Providence, N. Y. Obarlestown, Mass.	Wolcott, Vt. West Falmouth, Mass West Falmouth, Mass Gheenwich, N. Y. Blackstone, Mass Roxbury, Mass New York, N. Y. Westortown, Mass Watertown, Mass	Providence, R. I	Brooklyn, N. T	Paris, France. Amesbury, Mass	Magnolla, III. Westerly, B. I.
Ritter and Brugand House His Superit, Rammed H. House History, John, assign Swallow, Friedmin Bengling	Swain James & Swallow. Swain, Jefferson L. Swain, Jasob Swarts, Jasob Swarts, Jasob Sweet, Jisob Sweet, Jisob Sweet, William A. Sweet, William A. Sweeter, William A. S	Swiff, Almon Swiff, Almon Swiff, Almon Swiff, Daniel W Tykes, J. W Takes, J. W Taglishue, John Taglishue, Guieeppe Taglishue, Goorge Taglishue, John Taglishue, John Taglishue, John Taglishue, John Taglishue, John Taglishue, John Taglishue, John Taglishue, John Taglishue, John Taglishue, John Taglishue, John Taglishue, John Tallaferro, Sirbiolas Tapley, Joseph A Tunner, J. H Tunne	Toplin Albert Taplin Albert Taplin Emerine (Section II II In angles)	Tatham, Charles B. (See Unit, 11. D., sasugnor.) Tatham, Charles B. (See Fitzgerald, Daniol, assignor.) Tauber, John A., and Frederick Franck. (See Muller, Julius J., sasignor.)	Tavrines, J. M. H. A. Taylor, A. A. (See Rend, Dan, assignor.) Taylor, George, and James Lusty	Taylor, James S. See Founds, Joanes, assignor.) Taylor, James S. See Founds, James assignor.) Taylor, James S. See Blackman, Edwin, assignor.) Taylor, John Taylor, John, and R. W. Brown. Taylor, John, and James W. Armstrong. (See Armstrong.
36, 116 36, 636 37, 116 36, 444	84.84 1.1.1.1.85 1.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	4448448888884884848 8888868888888	8 ,85 88	35, 334	36, 867 1, 611	35, 970 36, 971

List of patentees of inventions, designs, and reissues, 1862.

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Date.	ଷ୍ଟଷ୍ଟିଲ	Aug. 26, 1862. April 8, 1862. Aug. 5, 1862.	6,4,6,8,4 ####################################	June 10, 1962, July 22, 1962, Aug. 26, 1862, June 10, 1862, April 8, 1962, June 17, 1962,	Mar. 25, 1982 Mar. 25, 1982 Mar. 26, 11, 1982 Mar. 11, 1982 Mar. 11, 1983 Ang. 18, 1983 Ang. 18, 1983 Feb. 11, 1983 Feb. 11, 1983 Feb. 11, 1983 Feb. 11, 1983 Feb. 11, 1983
"	April July Oct.	Aug. April Aug.	May 6, 1 Oct. 14, 13 Aug. 5, 1 June 24, 1	June 10, 11 July 22, 11 Aug. 26, 11 June 10, 11 April 8, 11 June 17, 11	Man Man Man Man Man Man Man Man Man Man
Invention or discovery.	Paper, sized, machines for drying. Straw-cutter and corn-sheller, convertible. Horseshoes, machines for making.	Smut and grain cleaning machines Banjoes Bost, shallow-water	Clock case (Design) Fire-arms, breech-losding Washing machine Angulometers, plane		Rolling piles of railroad fron. rolls for Clothes-wringer. Looms, fancy Knitting machines Fowder, blasting, composition for Links, adjustable Gas burners, self-regulating Gas burners, self-regulating Gas prattern Carpet pattern C
Residence.	Cleveland, Ohlo. Rome, N. Y. Cleveland, Ohlo. Cleveland, Ohlo.	Cicero, Ind. New York, N. Y. Chicago, III.	New York, N. Y. Birmingham, Eng. Broaklyn, Ohlo. Worcester, Mass. Boston, Mass.	100 000	Indanapolis, Ind. Wakerbury, Vk. Laconis, N. H. Laconis, N. H. Catasanqua, Pa. Fordanqua, Pa. Now York, N. Y. Now York, N. Y. Now York, N. Y. Now York, N. Y. Now York, N. Y. Now York, N. Y. Now York, N. Y. Now York, N. Y. Now York, N. Y. Now York, N. Y. Now York, N. Y. Now York, N. Y. Now York, N. Y. Now York, N. Y.
Name.	Taylor, K. W., and J. W Brightman Taylor, S. J. Taylor, Thomas R. Taylor, T. R. Taylor, William N., and William P. Battey. (See Battey)	8 E		mout, Edward L., assignor.) Thierry, Panne Thirry, Pierre Thomas, Chauncey, assignor to himself and Daniel P. Thomas, George M. Thomas, H. S., assignor to J. W. English Thomas, H. S., assignor to J. W. English Thomas, H. W., and P. P. Mast	Thomas, John, sasignor to himself and John M. Lord Thomas Manufacturing Company. (See Everitt, Sheldon B. assignor.) Thomas Samuel at al. (See Feezler, Stophen M. assignor.) Thomas Samuel Thomes. Thomas William R. and Morgan Emanuel, jr. Thomas William R. and Morgan Emanuel, jr. Thomas William R. and Morgan Emanuel, jr. Thompson, G. J. M. Thompson, G. W. Thompson,
No	8, 23, 53 117, 8, 8, 117 127, 127, 127, 127, 127, 127, 127, 127,	36, 311 34, 913 36, 117	1,575 86,681 88,139 112 112 115	884- 888 888 888	25 25 25 25 25 25 25 25 25 25 25 25 25 2

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Carpet pattern. Corpet pattern.	Jacks, lifting Screw drivers Gewing machines Railroad swritch Horsehoe machine Lamp Lamp Lamp Lamp Gas, lituminating, Gas, lituminating, Gas, lituminating, Gas, lituminating, Gas, lituminating, Gas, lituminating, Gas, lituminating, Gas, lituminating, Gas, lituminating, Gas, lituminating, Caulitrators
Now York N. Y. New York N. Y.	Cosbocton, Ohio Tunnton, Mass. Boston, Mass. Cleveland, Ohio Cloveland, Ohio Cloveland, Ohio Rochester, N. Y. Foo du Lac, Wis. Buffalo, N. Y. Detroit, Mich. New York, N. Y. Turner, Maho
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Institute in insti	or to himself, J. C. Wilder lier (26e Bennett, Ernettus &
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Thompson, Henry G. Thompson, Henry G.	Thompson, J.B. (38) Thompson, J.B. (38) Thompson, Janes M. Thompson, Rosewell, Zelotes W. Holden, Thompson, W. H. Thompson, W. H. Thompson, W. Himmer, Thompson, W. Himmer, Thompson, William E. Thomson, James E. Thomson, James E. Thorp, James E. Thorp, James E. Thorp, James E. Thorp, James E. Thorp, James E. Thorp, James E. Thorp, James E. Thorp, James E. Thorp, James E. Thorp, James E. Thorp, James E. Thorp, James E. Thorp, James E. Thorp, James, Thorp, James,
1. Ket Thompson, 1. Ket Thom	36, 247 36, 247 37, 382 38, 386 39, 386 30, 389 30,

List of patentees of inventions, designs, and reissues, 1862.

Date.	June 24, 1862.	April 22, 1862, July 8, 1862, July 8, 1862, Sopt. 30, 1862, Nov. 4, 1862, Nov. 4, 1862, April 8, 1862, Nov. 25, 1862, Aug. 12, 1862,	May 27, 1862. June 17, 1862. Dec. 16, 1862.	Aug. 19, 1862. April 22, 1862.	July 8, 1962. Aug. 26, 1862. Nov. 18, 1983. Dec. 23, 1962.	July 15, 1962.	Mar. 4, 1862.	April 8, 1862. Mar. 4, 1852. Aug. 25, 1862. Ort. 14, 1863. Nur. 14, 1863. June. 18, 1863.
Invention or discovery.	Clothes wringer and mangle combined	Ordnance for use under water Buttery tower, revolving Guns in revolving towers by electricity, discharging Martary tower, revolving Warming apparatus, portable Buromeiers, increarial Tents, hammock Tents, hammock Tents, lectuouityo Martain and easks, oil-cotting for Lamps, krosene	Ditching machines Sudites, harness Seeding machines	Saddles, harness, hooks and terrets for	Skipta, skeleton. Pins. Penbolders Cork.	Clother-wringer	Shot, capister, or case for ordnance	Sewing machines Tents The state of the stat
Reidence.	Cuyahoga Falls, Ohio	Geneseo, III. Worcester, Mass. Worcester, Mass. Worcester, Mass. Worcester, Mass. Worcester, Mass. Philadelphia, Pa. Morphis, Ten. Ropphis, Ten. Portland, Me.	Weshington, III Middleport, III. Quasqueton, lowa.	Newark, N. J. Washington, D. C.	New York, N. Y. New York, N. Y. New York, N. Y. New York, N. Y.	Aggur to self and Rains II. Spaiding. Doston, Mass. and John Magre. (See Magre & See Magre London, Mass.) See Magre, John, asagraor. Release.) See Sagrant, Joseph E. asagraor.	Boston, Mast	Boston, Mass. Boston, Mass. Cambridgenor, Mass. Chellen Mass. Vestitud, N. Y. Chellen Mass. Vestitud, N. Y. Chellen Mass. Vestitud, N. Y. Chellen Mass.
Хаме	Tiff, J. D. Titlen, Island (See Paine, Calvin H., assignor.) Tilten, Jioward (See Paine, Calvin H., assignor.) Tilten, Joseph, et al. (See Mongan, Jay, Edwards & Tilt-	Filmby Theedore R. Timby Samuel H. Timby Samuel H. Timby Samuel H. Timbook Samuel H.	Tobley, Sanutel Boyd, (See Greene, John F., assignor.) Toblisis, Benjamin Tobliss, John C., assignor to himself and Henry C. Kirk. Todl. Morris. Toepken, Victor, and Edward Procht. (See Precht &	Toepken.) Tompklur, Samuel E.	JONEY, LEY I.A. (Nee Shaw, Nea, Ne., Manggor, Arghanz, Towers, William H. Towers, William H. Towers, William H. Towers, William H. Towers, Corners P. (See Critcherson, John sasioner)	Towie, George P., assignor to self and Ruins H. Spading Towie, William J., and John Magee. (See Magee & Towne, William J. (See Magee, John assignor. Releane.) Towner, William J. (See Magee, John, assignor. Releane.) Townsend, Einer. (See Mageet, John, assignor. Releane.) Townsend, Einer. (See Sargent, Joseph F., antignor.)	Elmer.	Townsend, Finer. (see Apper, 8, 11, assignor.) Townsend, Chorge O. Townsend, Ocorge O. Townsend, John F., sassignor to self and Fascind P. Printt Tracy. Albithaw Tracy. Albithaw Tracy. Davight, assignor to self and Juseph P. Blale.
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13. 11. Trent, Americal A. 13. 12. Treatword, Daniel 24. 22. Treatword, John G. 25. 12. Treatword, John G. 26. 27. Treatword, John G. 26. 27. Treatword, W. B. 26. 27. Treatword, W. B. 26. 27. Treatword, W. B. 27. CS. 28. 57. Treatword, W. B. 27. CS. 28. 57. Tremper, John 27. CS. 28. 57. Tremper, John 27. CS. 28. 58. Tremper, John 28. 59. Tremper, John 28. 59. Tremper, John 28. 59. Tremper, John 29. 59. June, John 29. 59. Tremper, John 29. 59. Tremper, John 29. 59. Tremper, John 29. 59. Tremper, John 29. 59. Tremper, John 29. 59. Tremper, John 29. 59. Tremper, John 29. 59. Tremper, John 29. 59. Tremper, John 29. 59. Tremper, John 29. 59. Tremper, John 29. 59. Tremper, John 29. 59. Tremper, John 29. 59. Tremper, John 29. 59. Tremper, John 29. 59. Tremper, John 29. 59. Tremper, John 29. 59. Tremper, John 29. 59. Tremper, John	in William Halles Too to Yale & Curtis Too to Yale & Curtis To To To To To To To To To To To To To T	New Private, Conn Limitation, Mark Albany, N. Y Albany, N. Y Albany, N. Y Albany, N. Y New York, N. Y Buffalo, N. Y Buffalo, N. Y Buffalo, N. Y Booseher, N. Y Roceberer, N. Y Stonehm, Mass Amsterdam, N. Y Buffalo, N. Y Buffalo, Philado, Philado, Philado, Philado, Philado, Philado, Philado, Philado, Philado, Philado, Philado, N. M Buffalo, N. Y Buffalo, N. Y Buffalo, N. Y Buffalo, N. Y Buffalo, N. Y Buffalo, N. Y Rew York, N. Y New Yo	Decite, gavel, carpontered common manufacturistics common manufacturistics common manufacturistics decided common manufacturistics for flats, govers, total for flats, govers, total preschibitation for portable vessels. Brakes, liorse centrilingal control for Governors, centrilingal cannot centrilingal control machines for cutting welts for Grain scouring and cheaning Books in rithe round, machines for cutting welts for Water where in the round, machines for cutting welts for Cappiling, shaft good points, store for the good properties. But an an achines apparatus for evaporating ordenance, operating brakes of Cappiling, shaft good control for the good properties. Braiding machines for cappiling brakes of Carrention) corn-shellers. Carrenting brain good of damace, breech loading good of damace, breech loading call and other substances, apparatus for four, needled for making fo	Annual Sept. 11, 1862. July 20, 1862
		New Haven, Conn New Haven, Conn New Haven, Conn	ce, apparatus for making (coling and freezing, apparatus for Engines, stein, condensers for Timbers, mode of uniting	April 29 Aug. 13, Oct. 28,
Tyler, C. H., et al. (See Tyler, Henry G. Tyler, S. E., and W. M. Tyng, Levi B. Tynon, J. F. (See Otta,	Morgan, Tyler & McClave.) Jones. (See Jones & Tyler.) Frederick S., assignor. Design.)	Andover, Mass.	ilgn)	Aug. 12, 1862. Feb. 18, 1862.

List of patentees of inventions, designs, and reissues, 1862.

Date.	June 24, 1862. Feb. 4, 1862.	Feb. 4, 1862.	Oct. 28, 1862. Oct. 21, 1862.	Dec. 2, 1862.	Dec. 16, 1862. July 1, 1862.		~6	May 20, 1862. July 15, 1862. July 29, 1862.	~	Mar. 18, 1862. April 1, 1862. June 24, 1862.	Mar. 4, 1862.	July 8, 1862. Feb. 25, 1862.	జ్ఞాం	April 8, 1862. May 6, 1862.	April 29, 1868.	Jan. 14, 1863. Mar. 18, 1863. July 15, 1863. Lees. 10, 1863.
Invegtion or discovery.	Culitrators Knife and fork, construction of	Camp spoon	Belt-coupling. Harrow and seed drill, combined	ecturing	Spouts, metallic, bendingBee-hives			Clothes-wringer Motion, converting rotary into reciprocating	grinding surfaces, forming.	Castra oil-proof. Preparation of soluble silicates(Reissue) Bune-enters					Files, machines for cutting	Water-maters Amigan, cyol and alver, do lee for straining Amigan, cyol and alver, do lee for straining Amiganetics profits to gold and alver Amaganetics for gold and alver
Residence.	Milersburg, Ohlo	Philadelphis, Pa	New York, N. Y. Grand River, Is.	Eagle Harbor, Mich	Milwankie, Wis	W W servery	Poughkeepsie, N. Y.	Amsterdam, N. Y. Buffalo, N. Y.	Mamaroneck, N. Y.	Mamaroneck, N. Y. New York, N. Y. Albany, N. Y.	New York, N. Y.	Newark, N. J.	Pianfield, Ill Chesker, Ill Bordentown, N. J	Ithaca, N. Y. McAllisterville, Pa.	Providence, R. I.	Paterson, N. J. Man. V. Man. V. Interest. Cul. Man. V. Interest. Cul. Man. V. Tanteisco., Cul. Man. V. Tanteisco., Cul.
Name,		Ulner, Philip, assignor to himself, S. H. Worman, and	Underwood, Henry Underwood, Henry Underwood, J. A. W. J. (See McCall & Sloper, assignora.)	Union triess Company. (See manufact, Will, Institution). Uren, Richard, Thomas Dunatone, and Joseph Blight Utter, Isaac, and Orlando Clarke. (See Clarke & Utter.)	Valentine, E., and M. T. Ridout, assignors to themselves and William Beck.	Valentine, Wm. T. (See Vanderzee, Cornellus, assignor.)	Van Anden, William Van Anden, William	Vun Anken, Miner Vun Brocklin, Philip C Ven Present Ur	Van Buren, James, et al. (See Barker, Wm. P., assignor.) Vanderburgh, George E., assignors to Liquid Quartz Co.	Vanderburgh, George E. Vanderburgh, George E. Vanderburgh, George E. Vanderburgh, George E. Vanderburgh, George E. Vanderburgh and William T.	Valentine. Van Deusen, J. B	Van Dyne, John and A. C. Baker. (See Baker & Van Dyne.) Van Gieson, A. H. Van Gleson, W. H.	Van Horn, Jacob Van Kannet, Theophilus Van Nortweick, Wm. H. assignor to himself and R. S. Van		(See	Van Winkle, J. E., and Johns Mason. Van Winkle, J. E., and Johns Mason. Van Y. Honne Van Y. Honne Van Y. Honne Van Y. Honne
No.	35, 718 34,337	34, 338	36, 814 36, 739	37, 079	37, 305	82	8.8 5.5	8 888	81.18	¥. 1,29, 7,24, 1,	tized	. S. S.	8,8,8, 8,83 9,33 9,33 9,33 9,33 9,33 9,3	4 917 Fall (4	35, 130	Page Egg.

May 57, 1862. May 50, 1662. Hely, 11, 1662. Mar. 21, 1662. Mar. 21, 1662. Bept. 2, 1862. Bept. 3, 1862. June 17, 1862. June 17, 1862. June 17, 1862. May 20, 1862. May 20, 1862. May 20, 1862. Mar. 11, 1862.		June 17, 1862. May 6, 1862. Aug. 12, 1862. Dec. 23, 1862.	April 15, 1862. Feb. 18, 1862. Aug. 19, 1862.	July 29, 1863. May 20, 1863. May 20, 1863. Reb. 4, 1863. Peb. 25, 1863. July 15, 1963. July 15, 1963.
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New York, N. Y. Park, N. N. Park, N. N. Park, N. N. Park, N. N. Park, N. N. Porthelin, Balan Cleveland, Ohlo Worcenter, Mass Quagateto, I. Edudon, G. B. Loudon, G. B. Loudon, G. B. Loudon, R. Y. New York, N. Y. New York, N. Y. New York, N. Y. New York, N. Y. New York, N. Y. New York, N. Y.	Buffalo, N. Y. Richmond, Ind. Pittaburg, Pa. Longmesdow, Mass.	Boston, Mass. New York, N. Y Chicago, III Greenwood, Mass.	Boston, Mass Boston, Mass Cooperstown, N. Y	Benford's Store, Pa. Warren, Mass. Newrick, N. J. Bostron, Mass. Bostron, Mass. Bostron, Mass. Bostron, Mass.
Vestire, William Vestire, William Vestire, William Vestire, William Vestire, William Vestire, William Vestire, William Vestire, William Vestire, William Vestire, Fraux, sangingor to Charles Wigner Vickers, John III, sasignor to Luctus W. Pond Vickers, John III, sasignor to Luctus W. Pond Vickers, John III, sasignor to Simon Gulterman Vorgi, David, assignor to Simon Gulterman Vor Milliam	Water, Lonis Wade, John Wade, Nicholau E, and Joseph Eaye Wade, Nicholau E, and Joseph Eaye Wade, Win W Walbara, M, and D. C. Band. (See Rand & Wadhams) Walbara, M, and D. C. Rand. (See Rand & Wadhams)	Wadworth, Charles Wadworth, Charles Wadworth, Charles Wagner, Charles Wagner, Webster, and Alba F. Smith, (See Smith & Wagner, Webster, and Alba F. Smith, (See Smith & Wahl, Christian Wat, Windsor B., assignor to himself and Joseph A. Fair-hanks.	Waite, James H., and Rodney Hunt. (See Hunt & Waite.) Wakefeld, Cyrus. (See Trow. C. W., assignor.) Wakefeld, Cyrus. (See Mayall, Thomas J., assignor.) Wakefeld, Cyrus. (See Mayall, Thomas J., assignor.) Wakefeld, Cyrus. (See Mayall, Thomas J., assignor.) Wakefeld, Cyrus. (See Mayall, Thomas J., assignor.) Wakefeld, Gyrus. (See Mayall, Thomas J., assignor.) Wakefeld, Hornes P. (See Clognton, Thomas S., assignor.) Walcott, Halsey D., assignor to Wo. Rooper Blacker Waldby, Wm. H. Waldby, Wm. H., and Theodore D. Davis. (See Davis	& Waldron.) Walker, C. F. Walker, C. H. Walker, David. Walker, Goorge W., sasignor to himself and John Magne. Walker, George W. Walker, George W. Walker, George W.
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List of patentees of inventions, designs, and reissues, 1862.

No.	Name,	Residence.	Invention or discovery.	Date.
35, 718 34,337		Milersburg, Ohlo. Philadelphia, Pa.	Cultivators Knife and fork, construction of	June 24, 1862. Feb. 4, 1962.
34, 338	Uliner, Philip, assignor to himself, S. H. Worman, and	Philadelphia, Pa	Camp spoor	Feb. 4, 1862.
36, 814 36, 739	Jos. O. E.I.Y. Underwood, Unry Underwood, Henry Underwood, J. A.	New York, N. Y. Grand River, 18.	Belt-coupling Harrow and seed drill, combined.	Oct. 28, 1862. Oct. 21, 1862.
37,079	~ = 3	Eagle Harbor, Mich	Fuze, sefety, mechinery for manufacturing	
37, 303	Valentine, E., and M. T. Ridout, assignors to themselves and William Beck.	Milwaukie, Wis	Speuts, metallic, bendingBoe-hives	Dec. 16, 1862. July 1, 1862.
	Valentine, Wm. T. (See Vanderzee, Cornelius, assignor.)			T== 17 1960
398 353	Van Anden, William Van Anden, William	Syracuse, N. X. Poughkeepsie, N. Y. Poughkeepsie, N. Y.	Course Harvesters	July 1, 1862.
8 8.5	Van Anken, Miner. Van Brocklin, Philip G.	Amsterdam, N. Y. Buffalo, N. Y.	Clothes wringer. Motion, converting notery into reciprocating	Kay
35,960	Van Brunt, George W	Horicon, Wis		July 22, 1862.
भूभू हा हुई	• • • • •	Mamaroneck, N. Y. Mamaroneck, N. Y. New York, N. Y.	Relatio)	Jan. 7, 1862. Mar. 18, 1862. April 1, 1862.
7 8 7 8	Vanderzee, Cornellus, essignor to himself and William T. Valentius. Valentius. J. B. Van Deugen. J. B.	Albany, N. Y. New York, R. Y.	Bung-cutters Car-conoling	June 24, 1862. Mar. 4, 1862.
	Van Dyne, John, and A. C. Baker. (See Baker & Van Dyne.) Van Grecon, A. H. Ven, Glecon, W. H.		Lesther-splitting machine.	July 8,
18,8,8, 18,83 18,83 18,0	Van Horn, Jacob. Van Kannel, Theophilus. Van Nortwick, Wan, H., sesignor to himself and R. S. Van	Plant Bold, M. A. C. Chester, Ill. Bordentown, N. J.	Cultivor successing Cultivories, machine for stoning Chair, reclining	_
24.85 19.75 18.15	Romentor. Van Order, Einn Wm. J. Bell. Van Ormer, R., and Wm. J. Bell.	Itbaca, N. Y. McAllisterville, Pa.	Lamp chimneys, mica.	April 8, 1862. May 6, 1862.
35, 130	Vanitone, Banuel, 16, 15, Csel	Providence, R. I.	Files, machines for cutting	April 29, 1866.
24,173	Van Wuikle J. E. and Joshus Mason van y Thomas van y Thomas Varuey, Lionas	Paternon, N. J. Manne, Children Francisco, Children Francisco, Children Francisco, Cuil	Water-melera Amigan, good and allyer, device for straining Amigan, good and allyer, device for straining Amiganatius mechanists good and allyer Amaiganators for good and allyer	Jan. 14, 1862. Mar. 14, 1862. July 15, 1862. Dec. 10, 1962.

May 97, 1602. May 80, 1602. Hope, 21, 1602. May 17, 1602. Feb. 11, 1602. Feb. 11, 1602. Feb. 11, 1602. June 20, 1602. June 20, 1602. May 20, 1802.		June 17, 1862. May 6, 1862. Aug. 12, 1862. Dec. 23, 1862.		Aug. 19, 1862. July 29, 1862. May 20, 1862. Feb. 25, 1862. Feb. 25, 1862. Aur. 25, 1862. July 15, 1862.
Fire-arms, revolving. Bandages and receptacies, catamental and urinal structure of a control of the control of	Bullard cushlons, lining Cane and stool, convertible. Cane and stool, convertible. Che bacels Wheels, metallic, for fly-wheels, &c(Reissue) Sewing machines	Coal-sifters Vantilators, car Ou from pigs' feet Peed-bags for borse and other animals	Eyelet machines Lectro-plating iron and other metals with copper, process of	Grain-cleaning machines Rakes, horse Chest of drawers Cradle, self-rocking Brotlers, steak Grates, alding Stoves, cooking
New York, N. Y. They, N. Y. They, N. Y. New York, N. Y. New York, N. Y. New York, N. Y. Ballimore, Man. Ballimore, M. B. Loudon, G. B. Loudon, G. B. Loudon, G. B. Rew York, N. Y. New York, N. Y. New York, N. Y. New York, N. Y. New York, N. Y. New York, N. Y. New York, N. Y. New York, N. Y.	Buffalo, N. Y. Richmond, Ind. Pittaburg, Pa. Longmesdow, Mass.	Boston, Mass. New York, N. Y. Chicago, III. Greenwood, Mass.		Cooporstown, N. Y Benford's Store, Pa. Warren, Muss. Newnrk, N. J Boston, Mass Boston, Mass Boston, Mass Boston, Mass
Varietian, Agrou G. (200 princit) Jumph D., maniguore.) Varieties, Williams. Varieties, Williams. Varieties, Williams and Manieties. Vergrams Manieties. Vergrams Manieties. Vergrams Manieties. Vergrams Manieties. Vergrams Junes, and Samuel Leaus. Victor, John H., assignor to Charles W. Pond. Victor, John H., assignor to Simon Guiterman. Verd. Manieties. Verg. Williams. Vor. Booley, Wm. C., and Wm. A. Ladden. Voes Bichard. Voes Richard. Voes Richard.	Wacker, Louis Wack, John Wack, N.E., and Joseph Raye Wack, Nicholan E., and Joseph Raye Wadhe, Win W. And D. C. Rand. (See Rand & Wadhama, W. And D. C. Rand. (See Rand & Wadhama, M., and D. C. Rand. (See Rand & Wadhama, M., and D. C. Rand. (See Rand & Wadhama, M., and D. C. Rand. (See Rand & Wadhama)	Wadman, W. B. Wadworth, Charles. Wagner, Charles. (See Vester, Franz, assignor.) Wagner, Webster, and Alba F. Smith. (See Smith & Wagner. Wall, Christian Wat, Windsor B., assignor to himself and Joseph A. Fair-	Watte, James H., and Rodney Bunt. (See Hunt & Waite.) Wakefeld, Cyrus. (See Trow, C. W., sasignor.) Wakefeld, Cyrus. (See Mayall, Thomas J., assignor.) Wakefeld, Gyrus. (See Mayall, Thomas J., assignor.) Wakefeld, Horse P. (See Glogston, Thomas S., assignor.) Walcott, Haisey D., assignor to Horsee Williams Walcott, Jabes E., assignor to Wm. Hooper Blacker	Waldron, John M., and Theodore D. Davis. (See Davis & Waldron.) & Waldron.) Walker, C. F. Walker, C. H. Walker, Davis. Walker, Davis. Walker, George W., assigner to himself and John Mages. Walker, George W. Walker, George W.
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List of patentees of inventions, designs, and reissues, 1862.

	Date.	July 22, 1862. Feb. 25, 1862. Sept. 16, 1862. June 17, 1862.	July 1, 1862. Oct. 29, 1862. Aug. 12, 1862. Doc. 16, 1862. Jun. 14, 1862. April 15, 1862. Sopt. 16, 1862. Sopt. 16, 1862.	June 21, 1862. Mar. 25, 1862. Feb. 25, 1862. Aug. 26, 1862. Dec. 16, 1862.	Jan. 7, 1982. Oct. 14, 1862. Oct. 21, 1862. Feb. 25, 1862. Dec. 23, 1862.	Jan. 14, 1802. May 14, 1003.
	Invention or discovery.	Stores, cooking Leather, machine for pricking Car-brakes, railroad Clothes-wringer	Fences, portable. Planters, corn, hand Planters, corn, hand Tanks, recum. Engines, strom. Gas, illuminating, process of manufacturing Bung for oil casks Dung for oil casks	Rudders, spare, apparatus for shipping. Hats, military Cups, army and navy Hat, military Cups, army and navy	Telegraphing by colors. Brick machines. Bre-hives. Ships' arnor plates. Sulls, oil	Pinning machine Lister 1 secured equide Lister 1 through a reparative for
	Regidence.	Dorton, Mass. Worcester, Mass. Cincinnatt, Oblo. Boston, Mass.	Milton, Ia. Milton, Ia. Blizabeth City, N. J. Tannaqua, Pa. Philadelphia, Pa. Philadelphia, Pa. Philadelphia, Pa. Row York, N. Y.	New York, N. Y. Sacramento, Cal. Philadelphia, Pa. Philadelphia, Pa.	Philadelphia, Pa. Boston, Mass. Melville, In. New York, N. Y.	Lako Village, N. H. New York, W. Y. C. W. York, S. N. C. W. Y. W. S. N. W. W. W. W. W. W. W. W. W. W. W. W. W.
4	Name.	Walker, George W. Walker, J. II. Walker, Joseph N. Walker, Styl-man. Wallace, Robert. (See Fournier, F. B., anaignor.) Walling, Wm. P., and Daniel C. Smith. (See Smith &	2	Wanzer, Converse See Plant, Pascal, assignor.) Wappich, Maximilian Warburton, W. F. (See Howson, Henry, assignor.) Warburton, W. F. Warburton, W. F. Warburton, W. F. Warburton, W. F. Warburton, W. F. F. Warburton, W. F. F.	3 : E383 : : 20°	Warlor & Child (See Cochanie, William F., assignor.) Warlor & Child (See Cochanie, William F., assignor.) Warlor & Child (See Cochanie, William F., assignor.) Warlor & Child (See Cochanie, William F., assignor.) Warlor & Child (See Cochanie, William F., assignor.) Warlor & Child (See Cochanie, William F., assignor.) Warlor & Child (See Cochanie, William F., assignor.) Warlor & Child (See Cochanie, William F., assignor.) Warlor & Child (See Cochanie, William F., assignor.) Warlor & Child (See Cochanie, William F., assignor.) Warlor & Child (See Cochanie, William F., assignor.) Warlor & Child (See Cochanie, William F., assignor.) Warlor & Child (See Cochanie, William F., assignor.)
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	Detector, low-water Press, foot Wire, & Liron and streel, annealing Composition for making oll-cloth Water elevators Burial case.		tor for		for			(Reisrue) hines, cylinder for. (Design)
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verdilating windows for elevators	nd steel	ng wire	wood	Cas retorts, setting. Gas, oxygen, manufacture of Sad-iron.	dator	otector.	holeschine for	Hat-bodies, manufacturing Sawing machine, self-feeding Skates Grain scouring and threshing maci Spoon.
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5	Warren, Olis, (See All Warren, Nilliam B. Warburn, George I Washburn, Oliver C. Washburn, Samuel M.	Wissernen, Emanuel	son.) Watson, Lewis Wattis, William L. (; Weud, Samuel M. (Se	Webb, W. W., et al. (Weber, Adam. Webster, James, assign Webster, Joel. Webster, Samuel, and	Wybster,) Webster, William Wedekind, Gustav. (&	Weed, George M. (See Weed, James Weiner. Peter L. Weir. Robert Weir, William S., Jr. Weisenborn, Heary, an	Weiting, William Welch, Robert Welch, John Weldy, John Welling, Charles H. (See	weing, Unarles II. (Sec Call Weils, Henry A., deceased, I. Weils, Thomas J. Weilsted, W. H. Weilsted, W. H. Weintel, John B.
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Warner, Henry, and B. Warren, Anson, and Jaw. Warren, In v. (See Kin		K K K K K K	Watson, Wattle, Wread, S.	र इस्टिड इ 	533± !≤≈≈	**************************************	: 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	v. eing. Charles H. (Ser Weils, Henry A., decen through meene assigna Weils, Thomas J. Weilste, James A., sasign Wenset, John B
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288	ង្គង្គង្គម	រក់អត់ <i>ម</i> ន្ត	g . ä	มูลุย	8 8, 13,	8888	######################################	\$ \$25 \$ 8.
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List of patentees of inventions, designs, and reissues, 1862.

Date.	Peb. 25, 1982. Nov. 11, 1982. Nov. 11, 1982. Jan. 7, 1982. May 20, 1982. Mar. 4, 1982. Mar. 4, 1982. Dec. 16, 1982. July 29, 1982.	July 1, 1862. April 22, 1862. Dec. 16, 1862. July 1, 1862. April 1, 1862.	Nov. 4, 1862. May 13, 1862. Feb. 11, 1863. Feb. 18, 1862. Aug. 5, 1862. Sept. 2, 1862. June 10, 1862. June 10, 1862.	Mar. 4, 1862, April 1, 1862, April 1, 1862, Sept. 30, 1862, Nov. 4, 1862, April 15, 1862, June 3, 1862,
Invention or discovery.	Vinegar by the quick process, apparatus for making. Fire-arms, breech-loading Saccharine and other liquids, evaporators for Churus Chur	Bit for taming horses. Fire-arm, revolving Furnaces for the manufacture of oxide of zino. Tanning vet	Varnish, copal. Grain, stirring, conveying, and cooling. Water elevators Engines, tractomotive. Stove Horse powers, inks for Registers, grain Stoam-trap Charns.	Cotton, machines for combing. Files, machines for cutting. Files Air-engines, bot. Looms, power, take up motion for Six-wing:recelle cases Six-wing:recelle cases
Beridence.	Pittaton, Pa. Worcester, Mass. Providence, R. I. Syracuse, N. Y. Syracuse, N. Y. New York, N. Y. Schenctady, N. Y. Schenctady, N. Y. St. Louis, Mo. Milwaukle, Wis.	Boston, Mass. Brooklyn, N. Y. Philadelpha, Pa. Wheeling, Va. Berkeley Springs, Va.	Newton, Mass Bolton, Mass Brooklyn, N. Y. Utica, N. Y. Albany, N. Y. Ro, Wis Uxbridge, Mass Charlton, Mass	Providence, R. I. Cambridge, Mass. Cambridge, Mass. Philadelphia, Pa. Breecklyn, N. Y. Maniville, Oblo
Name,	Pranklin Amos Amos Amos Amos Amos Amos Amos Amos	at. (See Quann, William, assignor.) danufacturing Company. (See McCur-	Wheeler, Assabel Wheeler, Assabel Wheeler, Jesse B. Wheeler, Norman W. assignor to Henry H. Wheeler Wheeler, Norman W. assignor to Sinon Stevens Wheeler, Rursel, and Stephen A. Bailey Wheeler, Seth. Wheeler, T. Northup Wheeler, T. Worthup Wheeler, Seth. Wheeler, Seth. Wheeler, Seth. Wheeler, Seth. Wheeler, J. Storter, Seth. Wheeler, Mannes D., and J. J. Storer, (See Storer &	R. G. Stafford ., assignor to the Whippie File Manumay. ny. ny. 1E. (See Hutchison, James, assignor.) 1. Assignor to Joseph Dodin 1. assignor to Joseph Dodin 1. assignor to Joseph Dodin 1. assignor to Joseph Dodin 1. assignor to Joseph Dodin 2. and William S. Frail 3. W. Linton. (See Burton, Ellumb.
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Principle Prin	Teeth, artificial, manufacture of (Returne). April 29, 10.00 Mg. Red. 21, 10.00 Mg. Red.	Providence, R. I. Screws, wood, machines for shaving and nicking the July 15, 1862, heads of. Abington, Mass. Boots, galter, fastening for.	Wheels, car, cast-iron, annealing and cooling (Extension). April	Durton notes, apparatu for parting cota for Sept. 30, Se		Hoboken, N. J. Sled, propeller, rocking Dec. 16, 1892, Dec. 16, 18	West Roxbury, Mass New York, N. Y. Bollers, steam-vals, tanks, &c., mode of preventing corrodoun of red. 18, 1862. Envelopes New York, M. Y. Lard, apparatus for coeling.
23, 779 White, Adoption J. S. S. S. S. S. S. S. S. S. S. S. S. S.	White, St. & (See Smith, Francis W., assignor.) White, Sammel S. W. White, Wells H. White, Wells H. White, Wells H. White, William H. White, William S. Whitehll, Johne R.	Pag	Eleazer D. Nauh. Whitney, Asa. Whitney, Asa. Whitney, B. D., and J. G. Folsom. (See Folsom & Whit- ney. Design.)	Whitney, James A. Whitney, James A. Whitney, L. F. Whitney, Orill, et al. (See Peck, Royal H., asugnor.)	35, 34. Whitemore, Jonathan R. 36, 316 Whitemore, Jonathan R. 36, 743 Whitemore, Johns. 36, 743 Whitemore, Johns. 36, 743 Whitemore, Johns. 36, 744 Thomas Schoffeld, and James Higgins. (See	J. W. Hoard.	, sasignor.) . Ensign, Erastus r.)

List of patentees, of inecrations, designs, and reissues, 1862.

Date.	Aug. 12, 1962. Nov. 11, 1862.	Oct. 21, 1862 Mar. 18, 1862 May 6, 1862 Sept. 20, 1862 Feb. 18, 1862 May 20, 1862 June 10, 1862	Sept. 2, 1862 Sept. 16, 1862 Dec. 2, 1862 June 24, 1862	April 8, 1862 Jan. 14, 1862 April 22, 1862 May 13, 1862, Dec. 9, 1862 April 15, 1862	July 29, 1862. April 29, 1863. Jun. 7, 1862. June 17, 1862. Nov. 23, 1862. July 8, 1862.	Sept. 23, 1862. Aug. 19, 1862. Oct. 21, 1862. Oct. 21, 1862. Nov. 55, 1863. Aug. 55, 1863. Aug. 55, 1863.
Invention or discovery.	Chamfering and crozing machine. Hat, dies for forming	Metals, machines for milling and cutting. Hoisting machines. So white machines. So wing metalines. Locking metalines. Propelles relatively to the draught of water, apparatus.	for adjusting. Boots Propeller, martine Cropler, extension, revolving, and gauge wheel combined. Sewing machines, gig.	Sewing machines Axies, locomotive Axies, locomotive D'irvengines on locomotives Ordinance and other fire-arms, wad for Bullet, elonguled Excavating, ploughing, and grading machines	Harvesters, corn. Lamps, locomotive Stovet, comp Trude mark Crauber reflectors Lamp reflectors Lamp burner Lamp burner	Smut machines Cranks for driving sewing machines and other machinery Saving machines Saving machines Item employer House employer Contract participation From employer From employer From employer From employer From employer
Besidence.	Newark, N. J. Brooklyn, N. Y.	West Meriden, Conn. Crewonn, Pa. Chicugo, Life W. Vigranes, V. Vigranes, V. Clevelmes, V. Clevelmed, Ohlo.	Cleveland, Ohio Cleveland, Ohio Cleveland, Ohio Newark, N. J.	Boston, Mass. Syracuse, N. Y. Syracuse, N. Y. Syracuse, N. Y. Philadelpha, Pa. Philadelphia, Pa. Clearmout, lowa.	Chkeago, III. Utter, N. Y. Philadt (phi. Pa. Philadt (phia. Pa. Philadtelphia. Pa. Philadtelphia. Pa. Nevadia. Cali	Paresville, Ohio Providence, R. I. Studeck, W. T. Studeck, W. T. Variele, Cal. Varielle, Cal.
Name.	Wilde, Renry and Samuel H. Lyon. Wilder, Charles. (See Lakin, Tuylor D., assignor.)	Wilder, J. C., et al. (See Thompson, Mosewall, sasignor.). Wilder, M. A. Wilder, R. A. Wilder, R. A. Wilder, Dan B. Wilder, John B. Wilderl, Hosen. Wilderl, Hosen.	Willard, W. H. Willard, W. H. Willard, W. H. Willard, W. H. Willard, C. O. (See Matthew, William H., sasigner.) Williams & Co. (See Matthew, William H., sasigner.)	Cognwell & Wildman, Williams, C. W. Williams, Dyer, assignor to self and Borace C. Silaby Williams, Elijah D. Williams, Elijah D. Williams, E. M., and D. R. W. Williams, E. M., and W. Williams, E. M., and D. R. W. W. Williams, E. M., and D. R. W. W. W. W. W. W. W. W. W. W. W. W. W.	Williams, E. H. (See Most, James M., sasignor.) Williams, Horste. Williams, Horste. (See Walcott, Halsey D., sasignor.) Williams, Invent. A. Williams, James, sasignor to L. M. Williams & Co. Williams, John. Williams, John. Williams, Lorir & W. Williams, M. W., sasignor to self nad Owen M. Smith,	Williams, Samuel B. Williams, Turner, assigner to self and David Heaton, 2d. Williams, Turner, John H., and Samuel Forsythe Williamson, John H., and Samuel Forsythe Williamson, John H., and Samuel Forsythe Williamson, John Williamson, John Williamson, John Williamson, Alliamson, Alliam
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List of patentees of inventions, denigns, and ressues, 1862.

Date.	April 15, 1862. June 10, 1862. July 29, 1862. Dec. 2, 1862. Oct. 21, 1862.	Sopt 23, 1862. Feb. 18, 1862. May 6, 1862. July 22, 1862. Nov. 11, 1862. Feb. 25, 1862.	Oct. 21, 1862. July 22, 1862. Mar. 25, 1862. Aug. 12, 1862. Jan. 7, 1862. Oct. 26, 1862. July 1, 1862.	Aug. 26, 1862. Nov. 25, 1862. Sept. 9, 1862. Mar. 11, 1862. May 13, 1862. June 3, 1862.	Oct. 21, 1962. Feb. 11, 1962. June 3, 1962. Nov. 11, 1962.	Rept, 23, 1962. Nov. 11, 1962. Jan. 21, 1462. April 22, 1962. May 47, 1963.
Invention or discovery.	Harvesters Harvesters Harvesters, cuting apparents for Plers and bridges	Ships and other batteries, defensive armor for Stoves, camp Vessels, war, arming Vessels, war, arming Projectiles, feathered, sabot for Bake Clock case.	Musical instruments, operating swells in Paper file Pumps, steam Coffee boller Can for oils, varnishes, &c. Gate for oils, varnishes, &c. These mak breech-loading Tubes, smoking.	Water elevators Porceps, tubular Diggers, potato Stoves, cooking Stoves, cook Stoves Stoves, cooking	Camels, marine A. Coffins, handles for. Pianos, iron frames of. Seeding machines, broadcast	Locks Rein grand for borses Metal, sheet, architectural Patrict Puddis-wheels, arrangement of feathering flosts with
Residence	Hoosick Falls, N. Y. Hoosick Falls, N. Y. Hoosick Falls, N. Y. Hoosick Falls, N. Y. Hudson, N. J.	Philadelphia Pa. Lynn, Mass. West Roxbury, Mass. West Roxbury, Mass. Bridgeport, Obio. Winchester, Conn.	Boston, Mass. Washington, D. C. New York, N. Y. Brooklyn, N. Y. Charlestown, Mass. Worcester, Mass. Welmork, N. H. New York, N. Y.	Cleveland, Ohlo New York, N. Y. Niles, Mich. Cleveland, Ohlo Cleveland, Ohlo Cleveland, Ohlo Cleveland, Ohlo	Vincenttown, N. J. Albany, N. Y. New York, N. Y. Pipon, Wis.	Upper Sandunky, Obio Upper Sandunky, Obio New York, N Y New York, N Y New York, N X
Name.	Wood, Walter A. Wood, Walter A. Wood, Walter A. Wood, William H. Wood, William H. Wood, William H.	Wood William W. W. (See Baron Victor, aasignor.) Wood William W. W. Woodbury, S. D. Woodbury, S. D. Woodbury, Joseph P. and Sal. S. Gray Woodbury, Joseph P., and Sal. S. Gray Woodburg, Laula, Luitur, aasignor to Russell & Erwin, manufacturing company.	Woods, Edward F. (See Sherwood, Daniel, assignor.) Woods, George, assignor to Macon & Hamin Woods, W. L., assignor to Harriet Woods Woodward, Cavin and George M. Woodward, Edward F. Woodward, Edward F. Woodward, Edward F. Woodward, John Woodward, John Woodward, John Woodward, John Woodward, John Woodward, John Woodward, Arad, third, assignor to self, Albert Bridges,			Worman, L. H. (See Ulmer, Philip, matgroot.) Worth, Guy C. Worth, Guy C. Worthen, William E. Worthen, William E. Worthen, John P., matgroot to Nation Orent and Ocorge. W. Unversion, John P., matgroot to Nation Orent and Ocorge.
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Mar. 11, 1809,	Doc. 9, 1849. Mar. 18, 1862. Nov. 25, 1853.	Nov. 4, 1862. Feb. 11, 1862. April 19, 1862. Aug. 16, 1862. July 1, 1862. July 1, 1862. May 6, 1862. May 7, 1862. May 7, 1862. May 7, 1862. May 6, 1862. May 11, 1862. June 17, 1862. June 17, 1862. June 17, 1862. June 9, 1862.
New York, N. T Tool posts or holders.	Shoe knife Pumpe Pumpe	Cloveland, Ohio Duliding, mode of sustaining gutters to Lafayette, Ind. Ordnance, breech-loading. Lafayette, Ind. Ordnance, mode of constructing Lafayette, Ind. Dordnance, mode of constructing Harvesters, corn Harvesters, corn Dortnesters, Mass. Dortnesters, Mass. Lautern. reflecting Dortnesters, Mass. Dortnesters, Mass. Dortnesters, Mass. Castors, table glass Penatequis, N. Y. Washing machine. Washing machine. Penatequis, N. Y. Washing machine. Counting m
New York, N. T.	Kilingly Conn. Pulaski, Iowa. Bloomfald, Iowa.	Cleveland, Ohio Lafayette, Ind. Lafayette, Ind. Lafayette, Ind. Lafayette, Ind. Lafayette, Ind. Lafayette, Ind. Palland, Mich. Bodton, Mass. Dorchester, Mass. Dorchester, Mass. Dorchester, Mass. Dorchester, Mass. Dorchester, Mass. To self and John Elder. Pentacquis, N. Y. West Galvery, N. Y. West Galvery, N. Y. West Galvery, N. Y. West Galvery, N. Y. West Galvery, N. Y. West Galvery, N. Y. West Galvery, N. Y. West Galvery, N. Y. West Galvery, N. Y. West Galvery, N. Y. West Galvery, N. Y. West Galvery, N. Y. New York, N. Y.
Wright, Charles. Wright), Charles. Wright), Wright June & Wright) Wright, June B., and June T. Thomas B., unsigner. Wright, June B., and Dunes L. Grever. (See Grever &	est J. Lavron assignor.)	Veakel, David T. Yeakel, David T. Zettl, William, assignor to self and John Elder. Zettl, William, assignor to self and John H. Stalls. Zettl, William, assignor to self and John H. Stalls. Zettl, William, assignor to self and John H. Stalls. Zettl, William, assignor to self and John H. Stalls. Zettl, William, assignor to self and John H. Stalls.
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DESCRIPTIONS AND CLAIMS OF PATENTS.

ISSUED IN THE YEAR 1863

ILLUSTRATED WITH ENGRAVINGS.



No. 34.045.—CHARLES ALEXANDER, of Washington, D. C.—Improvement in Camp Candlestick.—Patent dated January 7, 1862.—This invention consists in inserting a socket in the bottom of a common drinking cup, so as to hold a candle when the cup is inverted.

Claim.—The described combined cup and candlestick, us an article of manufacture, the same being constructed as and for the purpose set forth.

No. 34,046.—STEPHEN J. BABBITT, of Hackettstown, N. J.—Improvement in Washboards for Washing Clothes.—Patent dated January 7, 1862.—This invention consists in combining with the washboard a rubber, so constructed and arranged as to obviate the necessity of direct application of the hands, at the same time admitting of the washboard being used in

the relinary way.

Claim—The washboard A, provided with a rubbing piece a, corrugated or fluted at both sides, and fitted between the stiles or side pieces b b, as shown in combination with the rubber b applied to the washboard, and provided with knobs or semi-spherical projections d, as and

No. 34,047.—H. W. Ball, of New York, N. Y.—Improved Combination of Table and Camp Chest.—Patent dated January 7, 1862.—A table and camp chest are so combined that the table, when not in use, may be folded up and enclosed within the lid of the chest, withbut interfering with the articles within the chest, and also be taken out from the lid, unfolded

Lal adjusted, without interfering with other articles in the chest.

Claim.—The arrangement and construction of the hooks d, sockets e, detachable legs D, and hooks E, with each other and with the divided table top C, and camp chest A, so as to

perate together as set forth.

No. 34,048.—S. G. BLACKMAN, of Waterbury, Conn.—Improvement in Lamps.—Patent lated January 7, 1862.—The object of the invention is to obtain or render available for illuamation all the light emitted by the flame below the apex of the cone or deflector.

Claim.—As an improved article of manufacture, a cone or deflector for lamp tops, comweed of metal and mica or other suitable transparent substance, substantially as described.

No. 34,049.—G. W. Bonham, of Henry, Ill.—Improvement in Pulverizers and Seeding Machines.—Patent dated January 7 1862.—The object of this invention is to sow seed and palver.ze the earth at one operation; and it consists of a seed hopper with arrangements for raing and adjustment, and a series of pulverizers or clod-breakers worked by eccentrics of cranks in combination with vibrating levers, to be geared and adjusted at the will of the dates of the machine.

Claim.—First, the pulverizers v, arranged on the shaft d, in respect to each other, when distracted and operating in the manner and for the purpose specified.

Scrod, arranging the seed box c, in the frame a, on pivots k, so that the driver can throw the feder in and out of gear by the screw l, arranged at the side of his seat, as set forth.

Third staching the front truck to the front part of the frame a, and arranging it in relative thereto, so that the dip of the pulverizers can be regulated by the scrow g and handle k, in front of the distance of the distance of the screw g and handle k, in from of the driver's seat, as set forth.

No. 34,050.—P. W. BURNETT, of Sacramento, Cal.—Improved Railroad Switch.—Patent

dated James 7, 1832.—The switch is actuated by the engine or by an appendage thereto.

Claim.—The arrangement of the pivoted bevolled levers M M G G, and grooved levers H H,

with the pendants J, shafts I I L L, rods b b c c, lever K, shafts E, cam D', and switch rails BB as shown and described.

The arrangement of the slotted adjustable pendants N, with the curved arms of dt, pins ft, shoulders et, and shafts b*, as shown and described.

No. 34,051.—Andrew D. Campbell & Elbert Perce, of New York, N. Y.—Improvement in Casks for holding Quicksilver, Petroleum, or Hydro-carbon Fluids.—Patent dated January 7, 1862.—The claims fully set forth the nature and object of the invention.

Claim.—First, the use and application of any compound containing silica to impregnate the pores and crevices of wood or other porous or fibrous materials, suitable for the construction of barrels or vessels for holding quicksilver, petroleum, or hydro-carbon fluids, and to fill the joints of said barrels or vessels, in combination with a lining of cloth, paper, or other suitable fabric, glued to the interior of barrels or vessels, and coated with any compound containing silica, to render them impervious to the penetrating action of quicksilver, petroleum, or hydro-carbon fluids, in the manner above set forth.

Second, specifically the impregnation of wood, or other materials suitable for the construc-tion of barrels or vessels for holding quicksilver, petroleum, and hydro-carbon fluids, either before or after such vessels or barrels are made, with any solution containing silica, by means

of heat and pressure, for the purpose set forth.

Third, specifically the application of a lining of cloth, paper, or other suitable fabrication to the interior of barrels or vessels for holding quick-silver, petroleum, or hydro-carbo fluids, and coated with any solution containing silics, for the purpose set forth.

No. 34,052.—George D. Denison, of Troy, Ohio.—Improved Grain Register.—Patent dated January 7, 1862.—This device is designed to be attached to a threshing or other sixilar machine for counting and registering the number of bushels or measures of grain as it issues from the machine.

Claim.—The combination of the box A, skids B B', worm shaft G, arms h, wheel E, index e, and dial I, constructed, arranged, and operating substantially as shown and es-

plained, and for the purpose specified.

No. 34,053.—D. A. FISKE, of Milwaukee, Wisconsin.—Improvement in Vapor Lamps.—Patent dated January 7, 1862.—The object of this invention is to increase the amount of contract of the contract and flame by means of a bundle of wires passing through the tube containing the liquid, and

also to increase the facility for attaching and detaching the globe.

**Claim.—The arrangement of the removable cap G, and the bundle of wires H, fills: the tube of said cap in combination with the cup R; also, the manner of supporting the globe M by means of the stem O and the socket L, in combination with the method of attaching and detaching the globe-supporter W by means of the screw P, substantially in the manner as and for the purposes described.

No. 34,054.—M. P. GARDNER, of Huntington county, Ind.—Improvement in Mill-store Dressing.—Patent dated January 7, 1862.—The invention consists in providing a rule whereby the lines of dressing on the bed-stone and runner may be cut parallel to each other,

so as to perfectly coincide, for the purpose of cutting the grain in all parts alike.

Claim.—The construction and use of the rule, as described and seen in Fig. 3 of dragings, to determine and mark out for cutting parallel lines of dress, so that in running they may perfectly coincide one with the other, so as to run more steadily and cut the greaternly and uniformly.

No. 34,055.—JAMES E. GILLESPIE, of Trenton, N. J.—Improved Hydraulic Governor.— Patent dated January 7, 1862.—The object of this invention is to regulate the speed of eagines by means of a perforated cylinder containing a piston, which operates a zig-zag level, and is placed within a reservoir connected with a rotary pump, which imparts power to the mechanism operating the aforesaid lever; water or other fluid being used as a medium of transmitting the action of the pump to the piston.

Claim.—The use of a rotary pump F G H, in combination with a perforated cylinder.

M N, and piston P, for the purpose of regulating the speed of engines, substantially as

above described and for the purpose set forth.

Also, the use of the reciprocating zig-zag bar 2 3 4 5, in combination with the eccentric X, and the piston P, substantially as described and for the purposes set forth.

No. 34,056.—EDWIN GOMEZ, of New York, N. Y.—Improvement in Firing Campon, Mortars, &c., by an attached Fuses.—Patent dated January 7, 1862.—The invention relates to a mode of applying a fusee to the touch-hole of a cannon, mortar, or other gun, so as to fire one or several cannon at exactly the desired time.

Claim.—The perforated lusee, clamped to the cannon, mortar, or similar article, at the touch-hole, for the purposes substantially as set forth.

No. 34,057.—EDWIN GOMEZ, of New York, N. Y.—Improvement in the Construction of Trains or Fuses.—Patent dated January 7, 1862.—The invention consists in constructing a safety fuse or train in the form of a flattened strip or tape; and in the manner of strengthening and protecting the tape fusee by the introduction of longitudinal strings or cords, and a binding surrounding the same to keep the fuses and cords together, a thin coating of guttapercha being applied to render the fusee water-proof.

Claim.—First, a flat or tape fusee formed of an explosive compound enclosed in a strip of

folded paper, protected by a winding of string or an envelope of gutta-percha or other

suitable material.

Second, the longitudinal strings or cords d d, in combination with the said flattened or tape fusee, in the manner and for the purposes specified.

Third, the manner set forth of uniting lengths or sections of tape fusee by the notching or

lapping, as specified.

No. 34,058.—B. B. HOTCHKISS, of Sharon, Conn.—Improvement in Canister Shot for Ordnance.—Patent dated January 7, 1862.—The invention consists in the employment of an inner case of metal or other suitable material, divided longitudinally in one or more places for the purpose of contributing to the resistance of the case to outside pressure, thus diminishing the liability of the canister to become bruised or distorted in form, while the strength of the structure opposed to bursting strains is but little, if any, greater than that one to the outer case alone. It also consists in the employment of a box attached to the soft-metal base, so as to be capable of folding within a recess in said base for convenience of transportation, and being unfolded for receiving the powder when wanted for use.

Claim.-First, the employment of the inner case C, divided longitudinally, substantially

as and for the purpose described.

Second the attaching of a bag H to the base B, so as to be capable of folding within the recess therein, and of being unfolded when wanted for use, substantially as shown.

No. 34,059.—W. W. Hubbell, of Philadelphia, Pa.—Improvement in Explosive Shells for Ordnance.—Patent dated January 7, 1863.—This invention embraces a number of devices as set forth in the claims, which do not admit of brief description.

Claim.—First, the vent 15, opposite and nearly or quite at right angles to the base of the chamber 4, to receive and discharge the fire as quick as possible, and deliver the water direct

on the base of the chamber to diffuse it in the best manner, as described.

Second, expanding the fire in an enlarged chamber around the mouth of the burning column, so as to secure a large body of fire to insure the explosion of the shell, as described.

Third, combining the percussion exploder with the burning fuse, by securing the cylinder I to the inner end of the fuse stock, and providing it with the head for the striking inside of the cylinder, so as to unite the percussion and the fuse principles for explosion, as described. • Fourth, the lead stopper r, inserted in and secured to the inner end of the fuse stock by screw threads or similar means, as and for the purpose described; and also forming the chamber or space t, between this stopper and the burning column, as described.

Fifth, the chamber q, and its opening p, between the head M and the fuse column, as

described.

Sixth, the lead or metallic stopper z z, in the metal base, or groove covering the holes

and releasing on concussion to explode the projectile, as described.

Second, the fire-chambered water-capping combined with the cylindrical fuse-opening or stock, carrying the burning column with cylinder opening at the inner end, to hold the fire and explode the shell on impact, as described.

Eighth, the adjustable metallic timing rod W, in the burning column, or near its side, to edjust the fuse to explode the projectile at any instant of time, as described. Also, the strand of quick match a, in its lower end, to raise and lead the fire down on time, as described.

Ninth, the fire chamber 4, in the capping between the water table or plate 2 and the capping vent, formed by combining them, to prevent extinguishment of the fuse, as described. Also, the raised vent 3, of the water table, into the chamber, as described, to increase is capacity to exclude water. Also, the chamber 1, between the vent 3 and the orifice of the column r, as described.

Tenth, forming an enlarged or priming chamber 7, around or by the side of the timing rod, to insure an ignition of the fuse by presenting a large priming surface for the smaller vent, and allow the timing rod to extend through the capping and be adjusted without inter-

fering with the priming, as described.

Leventh, the file-cuts or fracturing points on the side of the timing rod, so as to break u off without the use of an instrument in adjusting the time in action, as described. And the quick or double three or four-threaded screw on the timing rod to adjust it quickly, escribed.

No. 34,060.—Henry Isham, of New Britain, Conn.—Improvement in Water Meters.—Prient dated January 7, 1862.—This invention consists in the employment of wings or vanes navertical shaft within a surrounding circular casing provided with an induction passage for the entrance of the water to be measured, in a tangent to the circle or nearly so, to act appn the vanes—an aperture being made in the bottom of the casing so that the water shall more in a whirlpool to insure the turning of the vanes, and indicate accurate measurement of the water.

Claim.—The combination of the following elements, viz: first, the radial vanes on a vertcal shaft; second, the surrounding case provided with a tangential induction pipe or passage and with a central discharge at the bottom; and, third, the registering mechanism or

the equivalent thereof, substantially as and for the purpose described.

Also, the flexible disphram and vibrating lever attached to it, in combination with the shall of the rotating vanes, and with the registering mechanism, substantially as and for the purpose specified. Digitized by GOOGLE

No. 34,061.—A. K. Johnston, of Middletown, Conn., and L. Dow, of Topeks, Kansas.— Improvement in Envelopes of Cartridges for Fire-arms.—Patent dated January 7, 1862.— The invention consists in forming the case of a cartridge of paper, cloth, or other fabric or textile material, which has been treated as in forming gun-cotton, in combination with a water-proof coating of collodion.

Claim.—As an article of manufacture, the envelope of a cartridge, constructed as above

described and for the purpose set forth.

No. 34,062.—WM. R. King, of Yellow Springs, Ohio.—Improved Apparatus for Evergorating and Distilling.—Patent dated January 7, 1862.—The nature and object of this invention will be understood by reference to the claim and engraving.

Claim.—The combination of the water space C, and tubes a a, around and above the furnace, with the evaporating pan situated in the upper part of said water space, substantially

as and for the purpose specified.

Also, constructing the evaporating pan with a plain bottom, and diamond-shaped pipes or passages N N, connected by partition plates above the bottom, so as to form a flue space K therein, substantially in the manner and for the purpose described.

Also, the combination of the steam pipes or passages N N, and their connecting pipes m n, with the evaporating troughs M M and their connecting openings m m, substantially a described, so that the steam and sirup or liquid flow side by side together through their whole course, in the manner and for the purpose specified.

In combination with these steam pipes, or passages and troughs, arranged as described also the strainers p p, removable as specified, for the purpose set forth.

Also, the combination of the receiving vessel H, having a strainer h therein, with the heating vessel G, in such a manner as to receive the clear liquid therefrom through a pipe J, below, and the impure liquid therefrom through a spout i, or its equivalent, above said strainer, for the purpose specified.

No. 34,063 .- J. L. LANDIS, of Manheim Township, Pa .- Improvement in Lifting Jacks .-Patent dated January 7, 1862.—The nature and object of the invention are explained by

the engraving and claim.

Claim.—The screw cap C, with its central neck or elongation, and surrounding cogs in combination with the double-footed or clawed base I, and friction pulleys K, on the base of the screw-shaft B, together with the case R, slotted on both sides, arranged and operated as described and shown in the drawings.

Also, the adjustable winch or crank M N, when the same is provided with two sliding clasps m n, peg t, holes s, and spring P, in combination with its application to either axis

g h of the cogged wheels C II, as shown and described for the purpose specified.

No. 34,064.—Daniel Lasher, of Brooklyn, N. Y .- Improvement in Furnace Grates .-Patent dated January 7, 1862.—The invention consists of a bar formed with two parallel side pieces, with cross-bars between them of sufficient length to cause the intervening openings to be longest widthwise of the bar, each bar being so wide as to prevent being twisted

and the cross-pieces not liable to be broken by expansion and contraction.

Claim.—Forming the grate bars for furnaces of boilers, &c., with the series of opening cc, crosswise of the bar, as specified, and so that these bars, when placed together, have

longitudinal openings between the bars, as set forth.

No. 34,065.—T. MAYHEW, of Poughkeepsie, N. Y.—Improvement in Lamps.—Putent dated January 7, 1862.—The invention consists in having the cone or deflector to which the chimney is attached connected with guide rods, which pass through the lamp-top, for the purpose of rendering the wick-tube accessible, so that the wick may be trimmed or raised without detaching the chimney from the lamp-top.

Claim.—Elevating the chimney F perpendicular through the medium of the rods or guides

D D, substantially as and for the purpose set forth.

No. 34,066.—JOHN McLain, of St. Mary's, Ohio.—Improved Automatic Fan.—Patent dated January 7, 1862.—The fan is operated by clock mechanism, and so arranged that it may be placed upon a table, or suspended from the ceiling over a bed, the stand or support of the fan and mechanism serving as receptacles of various articles, the fan being designed for ventilation or driving away insects, &c.

Claim.—First, the particular arrangement of the crank k, rod m, arm n, projecting from the fan-shaft I, for operating the fan-shaft from the fusee i, as set forth in connexion with the brake o, arranged to act against the cylinder g, substantially as and for the purpose set

Second, the attaching of the stand or upright B to the base A, by means of the slotted plate b, on tube a, and the arbor and pin cd, at the lower end of the upright B, when sail parts thus connected are used in combination with a removable box C, or block f, and the cup D, substantially as described.

No. 34.067.—Daniel Moore, of Brooklyn, N. Y.—Improvement in revolving Fire-arms.—Fatent dated January 7, 1862.—The invention consists in constructing the forward end of each chamber, (of a revolving cylinder,) which is open at the rear, with a rifled surface corresponding to the grooves in the barrel, so that the ball, which is entered with the cartridge from the rear of the chamber, is slugged previously to entering the barrel, and the explosion and detention of the ball, in being forced from the rifling, cause the chamber to press firmly grants the rear end of the barrel, thereby cutting off and preventing as much escape of green as possible.

Claim.—The employment, in a cylinder with chambers open at the rear, of rifting at the owner end of each chamber corresponding with the grooves in the barrel, for the purposes

and as specified.

Airo, the band or ring 2, having the recesses 3 3, for the stop lever or bolt, the said ring being formed as and for the purposes specified.

No. 34.063.—J. A. Morrell, of St. Charles, Mo.—Improvement in Pumps.—Patent dated January 7, 1862.—The invention consists in the employment of one or more sliding cylinders each provided with a valve opening upwards in the lower end, and arranged on the ower end of a stationary main in such a manner that the said sliding cylinders may be alteractly raised and depressed by eccentrics on a driving shaft, so as to raise and force water up three the main pipe at every unward stroke of the pump.

through the main pipe at every upward stroke of the pump.

Claim.—The employment of one or more sliding cylinders having valves suitably arranged in the mopening upward, in combination with a stationary main pipe C, connecting rods g g, and the eccentrics G G, on the driving shaft H, all arranged and operating substantially as

and for the purposes described.

No. 34.069.—ARTHUR NEILL, of Boston, Mass.—Improved Combined Knife, Fork. and Spoon.—Patent dated January 7, 1862.—The knife, fork, and spoon are so constructed that ther of the first named shall, in conjunction with the last mentioned, form a suitable receptace for the knife or the fork.

Claim.—As a new article of manufacture the combination made and operating substantially in the manner described, viz: the spoon formed with a case or protector sufficient to receive the fork and knife blade, and the knife or fork so formed as to complete a suitable receptable for the bestowal of the third implement.

No. 34,070.—GILMAN M. PALMER, of Clinton, Mass.—Improvement in the Method of Atbackling Car-Wheels to Azles.—Patent dated January 7, 1862.—The invention consists in the
Limited of attaching and holding a car-wheel upon the axle, so that it may move independsolve of the calc.

Claim -First

Claim.—First, the use of the collar C, or its equivalent, whether forged with the axle or damk upon it, or attached to it by any other means, in combination with the wheel D and the hab F, or their equivalents, in the manner and for the purposes substantially as described. Secondly, the use of the cap c, or its equivalent, in combination with the wheel D, the face g, and the collar C, or their equivalents, in the manner and for the purposes substantially as specified.

Thirdly, the collar E, or its equivalents, in combination with the screw d, the space f.

If the hub F, or their equivalents, in the manner and for the purposes substantially as

e ned.

Fourthly, the cap a, or its equivalent, in combination with the collar E, the screw d, the weige b, and the shield l, or their equivalents, in the manner and for the purposes substantially as set forth.

hathly, the use of the screw d, or its equivalent, in combination with the collar E and the wheel D, with its hub F, or their equivalents, in the manner and for the purposes substan-

as specified.

Stably, the use of the wedge h, or its equivalent, in combination with the screw d and the Coar E, or their equivalents, in the manner and for the purposes substantially as specified.

Stathly, the shield l, or its equivalent, in combination with the space e, the collar E, and with F, or their equivalents, in the manner and for the purposes substantially as specified.

No. 34,071.—J. and E. C. NICHOLS and D. SHEPARD, of Battle Creek, Mich.—Improvetal in Grain Separators.—Patent dated January 7, 1862.—A long inclined shoe (suspended
by Pendulous rods) attached to a threshing machine, to which a longitudinal swinging or
beauty movement is communicated, the object of the invention being to obviate the shocks
beauty by the rapid changes of motion in so ponderous a body.

Claim.—The arrangement of the shoe D, the rock shaft T, roots of the steady and

Claim.—The arrangement of the shoe D, the rock shaft T, rods R' R2, the separating and containing frames G H, operated in different directions by means of the crank shaft J and connexions, together with the agitating fingers, the several parts operating conjointly for

he aparation of grain from the straw, as is specified.

No. 24,072.—HERMAN PIETSCH, of New York, N. Y.—Improved Gold and Silver Amal-§***autor.—Patent dated January 7, 1862.—The pulp, as it comes from the stamping or crush-

ing mill, passes into the pipe B, and is forced through the box by pressure, or any mechanical means. The spaces F are supplied with the requisite quantity of quicksilver, and as the pulp is deflected downward the gold or silver in the pulp will be brought in contact with the quicksilver and amalgamated.

Claim.—The construction of the amalgamator, with an induction pipe B, higher than the induction orifice, a tight horizontal box A, hooked partitions D, zig-zag top E, and inclined

divided eduction orifice C, all arranged as shown and described.

No. 34,073.—G. B. SKINNER, of Damascus, Pa.—Improved Water Wheel.—Patent dated January 7, 1862.—The water falls on the part F, and flowing backward and downward towards the bottom G, it causes a rotary motion to the wheel from left to right, and, passing down the buckets, flows into the open space at the bottom, a portion of which from thence gradually passes out and through the small buckets E.

Claim. Uniting the outer cylinder A to the inner one D by a series of spiral buckets B. that leave an open space c between themselves and the cylinder D, substantially in the manner

and for the purpose described.

No. 34,074.—RICHARD P. SMITH and Jos. R. GATES, of Louisville, Ky.—Improvement in Mole Ploughs.—Patent dated January 7, 1862.—The press wheel is so constructed as to completely close the crevice made by the knife or coulter passing through the ground, and at the same time forming a ridge immediately over the drain and a duct (or channel-surface drain) on either side of the crevice made by the knife, thus carrying the surface water away from the crevice. With the capstan can be used any desired length of rope, by which the plough can be drawn a great distance without being removed.

Claim.—The draining plough, Fig. 4, provided with a press wheel o, with a concave per-phery, when used in combination with the double-spool capstan, constructed as set forth, and

for the purpose of under-draining.

No. 34,075.—DAVID J. STAGG, of New York, N. Y.—Improved Device for Closing Doors.—Patent dated January 7, 1862.—The device is designed to be applied to doors that open or swing both ways. The object of the invention is to obtain a means whereby the door may be kept in a closed state, not only when the draught is equal at both sides of the door, but also when the draught is greater at one side of the door than at the other side.

Claim.—The combination of the hinged bars or strips c c, and the weight or weights G, ar-

ranged and applied to the door, as and for the purpose set forth.

No. 34,076 .- S. C. STETSON, of North Bridgewater, Mass .- Improvement in Straw and Hay Cutters.—Patent dated January 7, 1862.—The material to be cut is fed along to the knife or knives by means of a travelling apron which is actuated by the same movement that operates the cutting devices.

Claim.—The arrangement of the right angular bar i k, ratchet wheel h, and bar w, operations

ing together as described.

No. 34,077.—W. O. STRONG, of Detroit, Mich.—Improvement in Weighing Register.—Patent dated January 7, 1862.—The register is attached to the scale beam in such a manner that the motions of the beam will cause the index finger to move and record faithfully the exact number of times that the same or an approximate weight has been weighed upon the scale.

Claim.—The travelling bar T, with the angular pieces I and K attached, in combination with the pin-wheel W", or its equivalent, and springs, either spiral or otherwise, working

substantially in the manner and for the purpose set forth.

No. 34, 078. -WM. A. SWEET, of Syracuse, N. Y. -Improvement in Scroll Saus. -Patent dated January 7, 1862.—The object of this invention is to attain a more perfect mechanical arrangement, by which the saw is propelled and supported, and to secure the greatest possible delicacy in the vertical strain of the saw while in operation. Provision is also made for the instant removal of the saw-dust, so that the eye of the operator may follow the lines with rapidity and accuracy.

Claim.—First, the combination of the adjustable cylinder K, the valve and wind chest D. the valve V, the saw head F, the saw B, and the adjustable slides F and X, substantially as

and for the purposes described.

Second, the loose cylinder K, when adjusted, substantially as specified, so as to form a yielding hold-down upon the stuff, both by its own weight and atmospheric pressure, for the purposes substantially as described.

Third, attaching the cylinder K by the set screw z, in order to obtain a rake adjustment.

substantially as set forth.

Fourth, combining the cylinder K. enclosing the saw-head, with the auxiliary frame-work and set screw z, or its equivalent, and slotted arms O' O', and set screws O O, for the purpose of attaining both a lateral and rake adjustment of the saw, substantially as and for the purposes described.

No. 34,079.—A. F. WARD, of Philadelphia, Pa.—Improvement in Telegraphing by Col rs.—Patent dated January 7, 1862.—This invention consists in the use, in telegraphing by colored plates, flags, lights, or other colored objects, of an alphabet table vocabulary, or code of signals, of which each letter, character, or sign is produced by two or more colors, or a corresponding number of exhibitions of a single color, the same number of colors or exhibitions of color being used throughout the whole alphabet.

Claim. —The use of a table or key composed of squares arranged as set forth, for the pur-

poses specified.

No. 34,080.—WM. S. THOMPSON, of Rochester, N. Y.—Improvement in Lamps.—Patent dated January 7, 1862.—The cap C is permanently attached to the burner, rendering it unnecessary to have a slot in the side of the cap for the passage of the milled head, by which the wick is raised and lowered. The ratchet wheels are provided with a cover, closed at the ends, to present the passage of any vapor from the wick, thus obviating danger of explosion.

Claim.—First, the means, substantially as described, of preventing the escape of vapor from the wick through the opening left for the ratchet wheels, whereby all danger of explosion

is obviated.

Second, in combination with the means recited in the first claim, the arrangement described of the cap C, burner B, and ratchet wheel d.

No. 34,081.—ROBERT WELCH, of Frankford, Pa.—Improvement in Sewing Machines.—Parent dated January 7, 1862.—This invention relates to the use of a thread-feeding apparatus for feeding the thread to the perforating needle, so combined with the cloth-feeding apparatus that the quantity of thread supplied for each stitch will always be in proportion to, or will correspond with, the length of that stitch.

Claim.—First, feeding the thread to the needle of the sewing machine by means of a shaft L. rotated by positive connexion with the cloth-feeding mechanism, substantially as and for

the purposes set forth.

Second, the use, in connexion with a shaft L, actuated as set forth, of a cone M, provided with a number of grooves c c, to vary the feed of the thread in accordance with varying thicknesses of material to be sewed.

No. 34,082.—Amos Westcott, of Syracuse, N. Y.—Improvement in Churns.—Patent dated January 7, 1862.—In addition to ordinary floats or dashers, appliances are used to secure an interchange of the fluid from end to end of the box, and to gather the butter to the centre of the churn after it is separated, so as to more perfectly work it, and at the same time to force through the fluid, whether milk or cream, while in the form of spray.

Claim.—First, the employment of the diagonal float-wheels b and b b, in combination with the shaft and dasher paddles c c c, constructed essentially as and for the purpose described. Second, the combination of the diagonal float-wheel b b with the diaphragm, Fig. 3, and

chamber, Fig. 4, constructed as and for the purpose set forth.

Also, the trough f and ff, in combination with the chamber diagonal float-wheels and dasher paddles described.

No. 34,063.—H. P. WESTCOTT, of Seneca Falls, N. Y.—Improvement in Panelling Machines.—Patent dated January 7, 1862.—This machine is designed for working the tenon or tongue on panels having a raised surface, and is also adapted to rabbeting and matching and grooving on various kinds of work and stuffs.

Claim.—The combined arrangement of the spring pressure guide L, constructed and operating as described, the stationary guide B, and separately adjustable disks or cutter heads

D D, substantially as and for the purposes specified.

Also, the construction and arrangement of the cutters gg with the round axle shanks m, projecting at right angles from the planes of the cutter's motion, and fitting into sockets of the disks or cutter heads D D, in positions parallel with the axis of the said disks, thus producing the angular and axle adjustments thereof, substantially as and for the purposes special.

No. 34,084.—F. G. WOODWARD, of Worcester, Mass.—Improvement in Breech-loading fire-arms.—Patent dated January 7, 1862.—The breech-piece has a deep recess in one side, at its front portion is bored out to within a short distance from the recess, the bottom of this low constituting the face of the breech. The bored portion of the breech-piece is screwed in the rear portion of the barrel, which protrudes through the rear of the cylindrical portion of the breech-piece may pass over the protruding rear portion of the barrel, so that by turning the breech-piece a short distance, the face may be brought up so tight against the lartel as to prevent leakage. The hammer protrudes through a screw-cap fitted on the end of the breech-piece, so as to be engaged by the sere H. A recess s, to run on a guide-stand, is cut on one side of a groove, in the lower part of the exterior of the breech-piece, to allow the latter to be turned for screwing it up to the barrel. A notch in the side of the breech-holder serves to lock it when screwed up tight.



Claim.—The movable breech-piece B, constructed with a recess $b\phi$, groove g, and recess s, fitted with a hammer D, main-spring k, sere H, and handle B', and having a screw connex ion with the breech, all substantially as described and applied to operate in combination with the trigger I, and with notch t and stud r of the breech supporter, substantially as set forth.

No. 34,085.—JOHN AMMIDON, assignor to himself and L. STREETER, of Springfield, Mass.—Improvement in Harness Buckles.—Patent dated January 7, 1862.—The bar A, upon which the tongue g is placed, gradually increases in size up to each side of the tongue, forming a collar, which holds the tongue in place.

Claim.—As a new article of manufacture, a harness buckle, constructed substantially as

described.

No. 34,086.—EDWARD BROWN, of South Reading, Mass., assignor to JOHN W. PIPER, of Lynn, Mass., assignor to B. D. GODFREY, of Milford, Mass.—Improvements in Water-proof Soles for Boots and Shoes.—Patent dated January 7, 1862.—The edge of the outer sole of a double India-rubber sole is so formed as to turn up outside the middle sole and conceal it, so as to avoid the necessity of trimming the edges as heretofore.

Claim.—The double India-rubber sole, formed as described, the edge of the outer sole being

turned up to conceal the edge of the middle sole, for the purpose set forth.

No. 34,087.-M. R. CLAPP, assignor to Himself and EDWARD MYNDERSE, of Seneca Falls, N. Y.—Improvement in Steam Fire Engines.—Patent dated January 7, 1862.—The object of this invention is to prevent the unsteadiness or tremulousness occasioned by the rapid working of a steam engine when placed upon a wheeled carriage by arranging two cylinders of the engine in such relation to each other and to the pump that their strokes are made simultaneously in opposite directions.

Claim.—The combination and arrangement of two steam cylinders, the pistons of which move simultaneously in opposite directions with the pump of a steam fire or other portable

engine, substantially in the manner and for the purposes described.

No. 34,088.—Lansing Marble, assignor to Himself and Townsend North, of Vassar. Mich.—Improvement in Baskets.—Patent dated January 7, 1862.—The claim and engraving explain the nature of this invention.

Claim.—As an improved article of manufacture, a basket, formed of two series of overlapping splints A A extending from side to side, secured by hoops and rivets, and having a conicabottom B, with central bolt or rivet d, and otherwise made, substantially as shown and described.

No. 34,089.—E. W. PIERCE and W. J. CLARK, assignors to W. J. CLARK & Co., of Southington, Conn.—Improved Soldier's Cot.—Patent dated January 7, 1862.—A series of cast metal transverse bars or supports of bow form are connected to longitudinal jointed reds which hold a sacking-bottom. A head-piece or support is provided, together with a head-clevating device. The whole is capable of being folded within a small compass for transportation.

Claim.—First, the employment or use of the bow or equivalent-shaped bars A, in combination with the jointed rods c and canvas B, arranged substantially as and for the purpse

Second, having the pieces b of the rods c at the head of the cot, curved as shown at c, in

order to form a pillow of the canvas at that point, as set forth.

Third, the adjustable bars ff attached to the head bar A of the cot, when said bars are used in connexion with the series of bars or supports A and jointed rods c, as set forth.

No. 34,090.—W. DE WITT, of Cleveland, Ohio.—Improvement in Harvesters.—Patent date. January 7, 1862.—A device for raising and holding a flexible cutter-bar so as to pass restily and easily over obstructions, and at the same time allow the cutter-bar to fall below the level of the wheels, and to render it firm, so that it cannot be depressed at any point of its elevation.

Claim.—The adjustable slotted cam-latch or key E, connected to the machine at or near the heel of the finger-bar, and operated in combination therewith by means of the lever L, in

the manner and for the purpose specified.

No. 34,091.—BARTON S. ALEXANDER, of U. S. Army.—Improved Projectile for Rifed Ordnance.—Patent dated January 7, 1862.—This invention consists of a compound shot of iron and lead or of other metals in such a manner that the parts of the shot shall not separate when fired, and so that the inertia of the shot shall be more gradually overcome, and the strain on the gun consequently diminished.

Claim.—The mode of making two or more parts of a compound shot adhere together by the use of tin, solder, or any other metallic compound to which a rim of lead, when cast

between those parts, will adhere.

Second, the hole k and the plug l, as a means of relieving the pressure caused by the compressed air or other confined substance between the two parts of the shot, and tending w separate them, as described Digitized by GOOGLE

No. 34,092.—Manassen Grover, of Clyde Village, Ohio.—Improvement in Ploughs. Patent dated January 7, 1862.—The invention consists in attaching the plough to the draught beam by a hinge joint at the centre of resistance on the mould board, by which it is made to conform freely to undulations in the surface of the ground, and the direct line of draught is always retained.

Claim.—The draught beam c, fastened by a hinge joint, arranged and operating substan-

tially as and for the purpose set forth.

No. 34,093.—W. J. PITT, of Middletown, Conn.—Improvement in Revolving Fire-arms.— Patent dated January 7, 1862.—The invention relates to a means of removing the revolving chambers from contact with the barrel before they are rotated, and of forcing the one to be fired into firm contact therewith after being brought properly into line.

Claim.—First, the combination and arrangement of the screw H, recoil shield, lever F, and

rack and pinion J &, or their equivalents, substantially as set forth.

Second, the arrangement of the spring L, thimble K, and pin D in and with the stock A. substantially as and for the purpose specified.

No. 34.094.—ROBERT RAMSEY, of New Wilmington, Pa.—Improvement in Bee-hives.— Patent dated January 7, 1862.—A combination of door and shutter to admit of ingress and egress for the bee and exclusion of the drone, and when desirable, for ventilation, and a shifting device for supporting the combs in the movable frames.

Claim.—First, the combination of the slide B, reversible sliding door b, and gauze-cover

aperture b2, all arranged as before explained, and for the purposes specified.

Second, the specific combination of the grooved bars H H, moveble bars I, and sliding sleeves K, constructed and employed in the manner and for the purposes set forth.

No. 34,095.—J. C. STOCK and J. E. EMERSON, of Trenton, N. J.—Improved Process of Making Steel.—Patent dated January 7, 1862.—This invention is fully set forth in the claim. Claim.—The manufacturing of tools, cutlery, or other articles by first casting the articles in their proper forms of iron, with which a suitable quantity of the oxide of manganese has been combined, then converting them into malleable iron by decarbonization, but without changing their shape, and afterward converting them into steel by recarbonizing them to the requisite extent by heating in an air-tight pot or other receptacle with vegetable charcoal, all as before explained.

No. 34,096.—JOHN WADE, of Richmond, Ind.—Improved Convertible Cane and Stool.— Patent dated January 7, 1862.—The claim and engraving explain the nature of this invention. Claim.—First, the extended division A, in combination with divisions B and C, in the manner and for the purpose substantially as set forth.

Second, the combination and arrangement of the divisions A B C, cap f, detent i. spring j, and angle iron T, in the manner and for the purpose set forth.

No. 34,097.—T. D. DAVIS, of Syracuse, and J. M. WALDRON, of South Otselic, N. Y.—
Improvement in Harvesters.—Patent dated January 7, 1862.—This invention consists in the manner of attaching a series of movable cutters to their bar, so that they may readily be

detached for repair and sharpening, or to replace any which may be destroyed.

Claim.—Securing movable blades in dovetail grooves in the cutter bar by means of a tapering rod c, operating in connexion with lugs a and protuberance b, substantially as explained.

No. 34,098.—J. W. HARDIE, of New York, N. Y., and A. S. HAYWARD, of Boston, Mass., assignors to A. S. HAYWARD, of Boston, Mass., and J. B. OGDEN, of New York, N. Y. Improved Combination of Knife, Fork, and Spoon.—Patent dated January 7, 1862.—The claim and engraving explain the nature of this invention.

Claim.—Forming the handle of the knife A of a single piece of metal, with the blade in such a shape as to receive therein the fork and spoon handles, in combination with the forms tion of the forks and spoon handles, so as to pack securely therein, substantially as specified.

No. 34,099.—JOHN J. ALTHOUSE, of New York, N. Y.—Improvement in Plastering Sur-Sees.—Patent dated January 7, 1862.—The invention relates to the use of plastering surfaces in connexion with columns, supports, or piers of metal, and consists in producing during the Operation of casting such irregularities upon the said surfaces as will insure the retention of plaster when applied as it usually is to laths.

Claim.—A metallic plastering surface, substantially such as described, for piers, columns, &c., produced during and by the operation of casting, substantially in the manner set forth.

No. 34,100 .- J. H. BALSLEY, of Dayton, Ohio. - Improved Step-ladder .- Patent dated January 7, 1862.—The claim and engraving explain the nature of this invention.

Claim.—The employment of the supports A A, the braces D, and the horizontal rods connecting front and back of ladder, together with supports F F, braces g g, and hinged cross-tie G, arranged, connecting, and operating as and for the purpose specified.

No. 34,101.-W. S. BARTLE, of Newark, N. Y.-Improvement in Pumps.-Patent dated January 7, 1862.—The object of this invention is to obtain a double-action lift and force pump, having but two valves and a single piston head, the piston rod containing an air chamber for keeping up continuity of discharge and preventing the concussion produced by u dead stroke.

Claim.—The combination of the hollow piston rod B, capped or closed at the upper end of the valve E and head, with the cylinder in which they act, constructed and arranged substantially as described.

No. 34,102.—GEORGE H. BRUCE, of Lancaster, N. Y.—Improvement in Bridges.—Patent dated January 7, 1862.—This invention relates to the manner of combining and uniting two frames in one bridge, designated the arch frame and truss frame, each being a distinct structure and self-supporting when considered separately from the other; and also the combination of a tongue wedge with each pair of principal rafters at their apex, for the purpose of filling the space left between the ends of said rafters in a manner to compensate for any shrinkage of the timbers or sagging of the bridge, and to prevent any side slip to the rafters.

Claim.—First, the combination of a truss-bridge frame with an arch-bridge frame, so as to

combine the strength of the two frames in one bridge, substantially as set forth.

Second, the tongue wedge D, in combination with the contiguous groove-ends of each pair of principal ratters, in the manner and for the purpose substantially as described.

No. 34,103.—WILLIAM BURNETT, of Boston, Mass.—Improvements in Gun Stocks.— Patent dated January 7, 1862.—A hand-hold is provided at or near the breech of a musket or other like fire-arm having a sword or bayonet, for the purpose of rendering the instrument more effective in a hand-to-hand encounter.

Claim.—Providing a musket or other like fire-arm, furnished with a sword or bayonet, with a suitable hand-hold at or near the breech, substantially as and for the purpose specified

No. 34,104.—JOHN CHANDLER. of Collinsville, Conn.—Improvement in Machinery for Cleaning Emery Wheels.—Patent dated January 7, 1862.—This invention consists in placing one or more sliding frames on vertical guide rods, said frames having the wheels which are to be cleaned fitted in them, and allowed to rotate freely, and using in connexion with said frames a water-box or tank provided with a roller or rollers.

Claim.—The employment or use of a water-box or tank B, supplied with one or more rollers c, in combination with one or more sliding frames E', for holding the wheels G, to be

cleaned, all being arranged substantially as and for the purpose set forth.

No. 34,105 .- GEORGE COLLINS and ENOCH PIPER, of Camden, Maine. - Improvement is Pumps.—Patent dated January 7, 1862.—The pump cylinder is constructed of glass, and fitted between metal bands, to prevent it from being fractured.

Claim .- A pump having a cylinder A, constructed of glass, with its ends fitted in metallic heads B C, as shown in combination with the piston E, of two metallic parts i j, perforated as shown, and provided with the packing F, and valve m, and connected together by the screw and nuts, all arranged as set forth.

No. 34,106.—George H. Cook, of New Brunswick, N. J.—Improvement in Composition for Lining Tobacco Pipes.—Patent dated January 7, 1862.—A composition of plaster of Paris and hydraulic cement or water lime, designed to possess the useful properties of plaster of Paris in setting and capability of being worked in a lathe, and free from its objectionable property of decaying or rotting under the influence of the moisture which condenses in the steam and bottom of the pipe.

Claim .- The use of the described composition for the lining of tobacco pipes.

No. 34,107.—JACOB DENNIS, of Marion, Iowa.—Improved Washing Machine.—Patent

dated January 7, 1862.—The claim and engraving explain the nature of this invention.

Claim.—The adjustable bottom B, and the rubber D, when both are constructed, arranged and operated in the manner and for the purpose specified.

No. 34,108.—ADAM ECKERSON and J. H. REURY, of Pleasant Brook, N. Y.—Improved Washing Machine.—Patent dated January 7, 1862.—An arrangement of lever disk rubbing surfaces in a box of semicircular form. Also, an arrangement of springs and treadle, whereby the degree of pressure of the rubbing surfaces upon the clothes can be regulated while they are in motion to suit the finest or coarsest fabrics.

Claim. - First, the semicircular disks c c', having corrugations on their inner faces, and fitted loosely on a bar passing longitudinally through the box, with the handles D D, the round bar spiral springs g k, and oblong semicircular box A, when combined, arranged, and

operating as described.

Second, the longitudinally sliding disks C C', round bar B, spiral springs g h, box H, pulleys e f, treadle E, and cords e d, when combined and arranged in the manner and for the purpose set forth.

No. 34,109.—J. A. FANSHAWE and J. A. JAQUES, of London, England.—Improved Brash.—Patent dated January 7, 1862.—The brush is provided with concentric or convolute projecting rubbing edges on both sides, which may be produced by pressing soft rubber of suitable form, or cutting them out of solid rubber.

Claim.—As an improved article of manufacture, a brush or scrubber having continuous

concentric or convolute rubbing edges, made as shown and described.

No. 34,110.-G. W. GILBERT, of Bettsville, Ohio.-Improvement in Churns.-Patent dated January 7, 1862.—This churn contains two separate apartments communicating with each other, in one of which is a hollow staff having a vertical motion, and in the other are loose balls which collect and compact the butter as it forms.

Claim.—The arrangement of the hollow staff E, follower F, valve a, and lever D, in combination with the partition B, and loose balls c c, all constructed, combined, and operating

in the manner and for the purpose explained.

No. 34,111.—GEO. P. GORDON, of Brooklyn, N. Y.—Improvement in Printing Presses.— Patent dated January 7, 1862.—The tympan sheet is made of paper and arranged so as to admit of its being easily replaced by a fresh one as fast as it becomes charged with "set-off" ink. One end of the sheet is attached to a vibrating nipper carrying rod and the other to a roller, which, by the action of an elastic cord, rolls it up after each impression, for the purpose of delivering the printed sheet to the pile table situated beneath the feed table. The lare vibrates and carries a pair of nipper arms provided with nippers which are caused to ascend and approach the feed table before each impression, to seize the sheet which is drawn off the feed table and down over the face of the platen; the tympan sheet is also by the same method unwound from the roller and drawn down over between the face of the platen and the sheet of paper. The sheet gauges are so constructed as to present the edge of the sheet accurately to the nippers, and the ink-distributing surfaces comprise a revolving cylinder and a revolving disk combined to secure a more even and thorough distribution of the ink than is possible by either device alone.

Claim.—First, the use or employment of a paper tympan sheet, operating substantially as

art forth, for the purpose specified.

Second, the combination of the nipper arms, provided with the nippers, with the vibrating platen, operating substantially as described, for the purpose described.

Third, the combination of the nippers and grippers with the nipper arms; also, those with

the vibrating platen.

Fourth, the combination of the nippers and nipper arms with a tympan sheet, operating substantially as described; also, these with a vibrating platen.

Fifth, the combination of the nippers and nipper arms with the feed table, operating substantially as described, for the purpose specified.

Sixth, the combination of the feed table with gauges constructed and operating substantially described, for the purpose set forth.

beventh, the combination of the stationary bed, and the revolving ink-distributing table,

with the platen, operating substantially as described. Eighth, operating the vibrating inking roller arms or roller frame, by or through the mo-

tion of the vibrating platen.

Ninth, operating the nipper arms, provided with the sheet taking nippers, by or through

the motion of the vibrating platen.

Tenth, the combination of the ink-distributing tables or disks, or a single ink-distributing table or disk, the ink-distributing cylinder, and the rocking roller, for the purpose described. Eleventh, combining the double-revolving ink-distributing tables or disks with the inkdistributing cylinder.

I welfth, in combination with the springs 8, and roller frame, the sliding rods 7, holding

and carrying the inking rollers, as shown

Thirteenth, raising the nippers, when taking or delivering a sheet, to such a height above the tace of the platen that the relative position of the vibrating platen and the feed table shall allow the platen to vibrate freely under the feed table, substantially for the purpose set

No. 34,112.—THOMAS S. LAMBERT, of Poekskill, N. Y.—Improvement in Tourniquets.-Palent dated January 7, 1862.—A P represents the arterial pad, and C P a counteracting The engravings and claim explain the nature and object of the invention.

Claim.—First, the application of the elastic band, in combination with a pad for producing

presure on arteries, in the manner set forth.

Second, the combination of an elastic band with a non-elastic one and with the pads for securing them in place and for making pressure, in the manner set forth.

Third, the application of the wings to the pads so as to permit collateral circulation, in the manner set forth.

Fourth, the attachment of the wings by hinges to the pads, in the manner set forth.

lifth, the checks on the wings to prevent the bands from slipping, in the manner set forth. Sixth, the combination of the pads with the wings and inelastic bands, for the purpose of making pressure on blood-vessels, in the manner set forth. Digitized by GOOGIC

No. 34.113.—HIRAM LITTLEJOHN, of Troy, N. Y.—Improved Clothes Frame.—Patent dated January. 7, 1862.—The engraving and claim explain the nature of this invention.

Claim.—The arrangement of the vertically movable toothed rack, F, in combination with the pivoted radial arms A, provided with toothed segments E, and connected together by clothes lines B, substantially as set forth.

No. 34,114.—THEODORE MARSCHALL, of New York, N. Y.—Improvement in Piano-fortes.— Patent dated January 7, 1862.—This invention consists in the employment of two rings applied in such a manner as to clamp the string or strings with the same screw which screws them to the block, so that the amount of pressure exerted by the strings on the sounding board may be adjusted at pleasure, for the purpose of holding the strings at either or each of the bearings or points between which they severally vibrate.

Claim.—The employment, for the purpose specified, of the rings c, and screws d. applied

in the manner shown and described.

No. 34,115.-L. G. Marshall, of San Francisco, Cal.-Improved Amalgamator.-Patent dated January 7, 1862.—The gravel or dirt from the diggings, or pulverized ore mixed with water, is made to flow evenly over the surface of the table, and in its passage down its course is arrested by the batteries b forming numerous eddies which serve to catch the fine particles of gold; the effect of the galvanic battery being to cause the precious metal to adhere to the table as an amalgam, the sulphurets or black sand, if any, passing down upon the lower table into sinks.

Claim.—The combination of trough Y, adjusting slide Z, metallic surface plates X W, of two inclined tables, batteries b of the upper table and compartments, and sinks h of the lower table, all the parts arranged in relation to each other as described, so that a galvanic current may be made to pass over both tables, and all the batteries b.

No. 34,116.—J. McClusky, of Milwaukie, Wis.—Improved Apparatus for Submarine Attack on Enemy's Vessels.—Patent dated January 7, 1862.—This invention consists of a grappling and drilling or boring apparatus so applied to a boat as to be capable of being worked by steam or other power under its decks to grapple and drill holes in an enemy's ships and other vessels below the water-line; it also consists in so combining the drill or boning tool with a cannon, that, after having drilled a hole, it may be fired through it from the

Claim.—First, the grappling apparatus, consisting principally of two levers E E, a grappler F, windlasses D D and G, chains e e f, the whole combined and applied to a best in combination with a drill or boring device, substantially as specified.

Second, the employment as the stock for the drill or other boring tool of a tube charged like a cannon for the expulsion of the said tool, substantially as specified.

No. 34,117.—JOHN McEvoy, of New York, N. Y.—Improvement in Hospital Knapsacks.-Patent dated January 7, 1862.—For containing medicines, lint, bandages, splints, and surgical instruments. It is designed to be carried by the surgeon's servants or attendants

during a march or an engagement.

Claim.—As an article of manufacture, a hospital knapsack for the use of army surgeons. composed of a body of wicker-work provided with partitions and doors, arranged substantially as described, and covered with leather or any proper water-proof cloth or material, substan-

tially as set forth.

No. 34,118.—Peter W. Neefus, of New York, N. Y.—Improvement in Water-Closets.—Patent dated January 7, 1862.—This invention is designed to be used in ships or other vessels, and consists in the means of opening the upper valve K, and the valve admitting the water by the upward movement of the rod D, the lower valve L remaining closed, and by the downward motion of the rod the lower valve opens after the upper one is closed, thus preventing the admission of water or air from below

Claim. - First, working the valves, K and L and W, by the handle or rod D, or its equiva-

lent, as recited.

Second, operating the lower valve independent of the upper with the same handle, as described.

Third, the combination of the valves K and L, rod D, raising water-valve box E, and closet-valve A, as set forth.

No. 34,119.—A. PHILIPPI and D. MOORE, of Elizabethport, N. J.—Improvement in Railroad Switches.—Patent dated January 7, 1862.—The invention consists in the employment of a movable bar or rail A, so arranged with levers and springs as to work a switch bar while the train is passing over the former, rendering the attendance of a switchman unneces-

Claim.—The loose switch bar, with sloped ends, moving in the slotted rail, and receiving both the flange and tread of the wheel when attached to the shaft B, and connected with lever and springs, and moved by the train while passing, as described, and for the purposes

set forth.

No. 34,120.—Moses Pond, of Boston, Mass.—Improvement in Stoves.—Patent dated January 7, 1862.—This invention consists in the employment of two separate and independent flues, one to each oven, and each supplied with suitable dampers, so that all the heat may

be concentrated around a single oven, and one oven be used independently of the other.

Claim.—The two ovens E and F, each having separate and independent flues from the same fireplace, in combination with the openings r and s, and their slides t, operating as

described, and for the purpose specified.

No. 34,121.—Thomas S. Clogston, of Boston, Mass., assignor to Himself and Horace P. WAKEFIELD, of Reading, Mass. - Improvement in Kitchen Ranges. - Patent dated January 7, 1862.—The first and second claims with the engravings explain themselves. The oscillating grate is intended as a substitute for the usual water back in ranges, and is so constructed and connected with the cold water fountain above and hot water below that communication with said fountains may be open, and circulation ensue, or be entirely closed, when the circulation will cease, by rotating the cross-piece P.

Claim.-First, the combination of a cubical fire-box, with the three water legs of the boiler in connect with the three surfaces of the said fire-box, as described, so that two of said water legs shall be interposed between the fire and the ovens to moderate the heat thereof, substan-

tially as set forth.

Scord the arrangement and combination of an oven between three water legs of the boiler on three of its sides, while the two flues from the fire-box pass over the top of said oren and thence down its further side to the bottom of the water legs, and thence around by the outside and to the rear, as substantially described.

Third, the oscillating tubular grate, in kitchen ranges, constructed and operating substan-

tally as set forth.

Fourth, the combination of the stationary part P with the oscillating grate, substantially set forth.

No. 34,122.—JAMES P. ELLICOTT, of Washington, D. C.—Improved Refrigerator.-Patent dated January 7, 1862.—This refrigerator contains four compartments, two of which have direct communication with the ice, the other two being made air-tight and receiving their temperature from the surrounding atmosphere. Each compartment is provided with a dor, and the whole is made to revolve upon a stand.

Claim.—A rotating refrigerator L, subdivided into four or more compartments as is herein described, combined and arranged with the pin K, and under frames L M, and pulleys N N,

substantially as and for the purpose specified.

No. 34,123.—G. E. VANDERBURGH, of Mamaroneck, N. Y., assignor to Liquid Quartz Company of New York, N. Y.—Improvement in forming Emery Wheels and Grinding Sur-Juca.—Patent dated January 7, 1862.—The gritty and cutting substances proposed to be used in the production of artificial cutting and grinding surfaces consist of the following sub-tances: Emery, corundum, franklinite and glass in a suitably comminuted state; also and fragments of buhr stone, &c., with a cementing material for uniting the various subcances, consisting of a peculiar character of liquid silicate, as described in a patent granted to the said Vanderburgh, May 29, 1860.

Cleim.—First, employing the liquid silicate which is referred to in the body of this specication, of the cementing material in the process of producing articles of artificial stone stable for cutting, grinding, and other purposes.

Second, after any properly prepared gritty or cutting substance has been incorporated with such a proportion of the above-mentioned liquid silicate as will produce a pasty substance

Third, the curing and toughening of the said moulded articles of gritty paste, by first abjecting them to the action of a moderate degree of heat for the purpose of drying the mane, and then subjecting the said articles to the action of a higher temperature, by the aid * sand bath, or some other analogous heating apparatus.

34,124.—JOHN BALDWIN, Jr., of Beres, Ohio.—Improvement in Machines for Making fraistones.—Patent dated January 14, 1862.—This invention consists of a device for wing or carrying away from the operator the dust and fine particles of sand thrown off ring the process of turning the stone.

Claim.—The enclosure G, fan L, chamber M, and discharge pipe N, when these parts are

enaged as described, and used in combination with a machine for forming grindstones, and terming as and for the purpose set forth.

No. 34,125.—ALFRED BLISS, of New York, N. Y .- Improvement in Lamps.-Patent and January 14, 1862.—This invention consists in the use of an annular metal clamp with * Large or joint and inclined projections in connexion with loops or lips attached to the lamp 47, the clamp being fitted on a flanch at the lower end of the chimney and secured to the Let p up by means of its inclined projections fitting under the loops or lips on the lamp top. Claim.—The annular clamp D, formed of two parts b b, connected together at one end by a large or joint c, in combination with the loops or lips f f, on the lamp top A, substantially

wand for the purpose set forth.

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No. 34,126.—FREEMAN BRADY, Jr., and J. C. NOBLE, of Washington, Pa.—Improvement in Magazine Guns.—Patent dated January 14, 1862.—A segmental plate is fixed to the stock immediately in the rear of the breech. This plate is pierced to receive the front end of the magazine. The rear end of the magazine is held in position by a catch and thrown our by a spring.

Claim.—The combination of the aperture f, catch G, and spring H, employed as set forth,

to secure the magazine and permit its ready insertion and removal laterally of the stock.

No. 34,127.—WILLIAM C. BRIDGES, of Philadelphia, Pa.—Improvement in Optical Telegraphs.—Patent dated January 14, 1862.—The invention consists of a tube with a lens and one or more adjustable mirrors in combination with suitable devices for obscuring and exposing the lens (the latter being illuminated by the rays of the sun reflected from the mirrors) or for moving differently colored plates of glass to the front of and away from the lens, so that, on observing the latter from a distance, its exposure and obscuration or the different colors seen will be the means of informing the observer of the nature of the messages transmitted by the operator.

Claim.—The tube B, with its lens and one or more adjustable mirrors, arranged substan tially as described, in combination with the device described, or any equivalent to the same, for obscuring or exposing the lens or moving differently colored plates of glass to the from

of and away from the lens, as set forth for the purpose specified.

No. 34, 128. - Moses Chandler, of East Corinth, Maine. - Improvement in Horse Hors. Patent dated January 14, 1862.—The object of this invention is to obtain an implement which may be adjusted so as to furrow land for planting either in hills or drills, and form the furrows at a greater or less distance apart, and at greater or less depth, as may be de-The implement is designed to be capable of covering seed in the drills of an uniform depth, and of any desired depth, and also to hoe and hill-up growing crops.

Claim.—First, attaching the wings H H of the implement to the beam A, by means of

the rod I J, which are fitted in eyes g, at the end of bolts K, in the beam, in combination with the joints h, which connect the front ends of the parts d of the wings to the rods I, and the slot s, in the lower parts of the rods J, through which the bolts f, at the back ends of

the parts d, pass, whereby the wings may be adjusted, as and for the purposes set forth. Second, forming the wings H H of two parts d e, connected together by a pivot or bolt f.

for the purpose specified.

Third, the adjustable and yielding cultivator blades F, when arranged as shown and used in connexion with the wings H, for the purpose set forth.

Fourth, in combination with the wings H attached to the beam A, as shown, the stay rods L, and adjustable bolt M, arranged as shown, to insure the proper bracing of the wings H, at all points of their adjustment, as described.

No. 34,129.—EDWIN CLARK, of Lancaster, Pa.—Improvement in Flouring and Gris Mills.—Patent dated January 14, 1862.—The object of this invention is to obtain a silent feet by means of a combination of devices, shown in the engravings, and designated by the claim.

Claim.—First, the conic cylinder J, with its central distributing disk Y, connecting arms

Z, and lugs R R beneath it, when employed in combination with the balance rine, substantially as set forth.

Second, the distributing disk Y (Fig. 3,) with its lugs R, without the conic cylinder, when

employed in combination with the balance rine aforesaid. Third, the adjustable tube O, with its vibrating section O, and set-screw P, in combination with the distributing disk Y, substantially as specified.

No. 34,130.—EDWIN CLARK, of Lancaster, Pa.—Improvement in Alarm Indicator for Grist and Flouring Mills.—Patent dated January 14, 1862.—This device is intended in indicate any irregularity in the running of the buhrs, whether such irregularity arises from the feed or any other cause, or whether the hopper be full or empty.

Claim.—First, combining with the buhr spindle of a mill, or with any other moving par of the mill gearing, a governor, and an alarm apparatus, by which any variation from the

proper or previously-regulated velocity of the buhr or buhrs, for good grinding, will be brought to the notice of the attendant, substantially as described.

Second, in combination with the buhr spindle, or other moving part of the mill gearing and a governor, a rod hand, or indicator, that will show to the attendant when the speed of the buhr, or buhrs, is at its regulated or desired velocity, or any variation therefrom, whether greater or less, substantially as described.

No 34,131.—WILLIAM F. COCHRANE, of Springfield, Ohio.—Improvement in Gran Threshers and Separators.—Patent dated January 14, 1862.—The object of this invention is to dispense with a long connecting rod or coupling shaft between the prime mover and hearing, and to diminish the vibration of the frame and consequent strain upon and jar of the gearing; to render the gearing stand adjustable so as to vary the distance between the countershaft and shafts of the threshing cylinder and separating mechanism; to regulate the

position of the gearing stand relatively to the threshing and separating mechanism whereby the tension of the driving bands can be varied by the attendant without moving from his position or stopping the machine; to insure steadiness of movement and diminish the liability of the cylinder to burst, and to reduce the strain and torsion upon the gearing, threshing cylinder, and separating mechanism.

Claim.—First, locating the driving gear upon the base of the machine, substantially in

the manner described for the purpose set forth.

Second, enclosing the driving gear in a solid stand or frame, independent of the main frame, substantially as described

Third, the combination of the diagonal braces a with the combined stand B, substantially a described for the purpose specified.

Fourth pivoting the combined stand to the main frame, substantially in the manner and for the purpose described.

Fifth the combination of the combined stand B, lever C, and lifting screw c, substantially

in the manner described for the purpose set forth.

Sith driving the threshing cylinder directly from both ends of the countershaft, and inde-

pendenty of the separating mechanism, as described.

Seventh, driving the threshing and separating mechanisms independently of each other by means of pulleys on each end of the countershaft, cylinder shaft, and beater shaft, as described, for the purpose specified.

No. 34,132.—WILLIAM F. COCHRANE, of Springfield, Ohio.—Improvement in Grain Truskers and Separators.—Patent dated January 14, 1862.—The object of this invention is to give any desirable angle to the grain belt while in operation, and to lower the mechanism within the main frame while being transported from place to place; to vary the distance between the driving gearing and threshing cylinder at will, while the machine is in motion, and to so arrange the driving gearing and separating mechanism that their relative positions may be varied at will without deranging the driving gear.

Claim.—First, mounting the threshing and separating mechanisms in an independent adjustable frame, capable of moving freely in a vertical plane within the main frame, for the

Second, the combination of the driving gearing and threshing cylinder, substantially in the manner described.

Third, the combination of the driving gearing and separating mechanism, substantially in the manner described.

No. 34,133.—WILLIAM F. COCHRANE, of Springfield, Ohio.—Improvement in Grain Tenshers and Separators.—Patent dated January 14, 1862.—The object of this invention is be gense with the use of complex and costly gearing requiring considerable power to drive

the creeping cloth is used in place of the common screw conveyor. The engravings

claim explain the nature of the invention. Claim.—First, a creeping cloth arranged transversely across the machine, to convey the

amnowed grain, directly from the vibrating shoe to the bagger.

second, the combination of a vibrating shoe, a creeping cloth, and a fan shaft, substanin the manner described.

Third, the combination of a creeping cloth, a fan shaft, and a vibrating shoe, with an wtable or independent frame, substantially as described.

No. 31,134.—J. H. DENNIS, of Louisville, Ky.—Improvement in Running Gear of Rail-rad Cars.—Patent dated January 14, 1862.—This invention consists of a compound journal in affording both a bearing and connexion for the adjacent ends of a divided axle, and also be employment of an automatic lubricating device.

Claim.-First, the combination with a divided axle C C', or two axles working in line, of * pound journal box E, constructed and adapted substantially as shown and explained,

"at and both bearings and connexion to the adjacent ends of the said axles.

Sound, the combination of the wick H, tube I, and clamping screw L, employed substantly in the manner explained to supply the journals automatically with oil, and control the the tereof as may be required.

No. 24,135.—J. H. DENNIS, of Louisville, Ky.—Improvement in Railroad Turn-Table.—Peant dated January 14, 1862.—The object of this invention is to enable the driver readily Truse the position of his car without leaving his position upon the platform or seat.

Cain.—Any device, substantially as explained, whereby the table, while permitted to a freely in one or the other direction, is automatically arrested the instant the rails are in continuous to enable the car to return on the track by which it approached.

No. 34,136.—J. H. DENNIS, of Louisville, Ky.—Improvement in Omnibus Springs.—Paent dated January 14, 1862.—The invention consists in a combination of springs and supring bars, for the purpose of attaining case and quietness of motion and reducing the regard and cost of construction of the carriage to which they are applied.

Claim.—Connecting the bed G to the longitudinal bars or springs B B, by means of a transverse bar F, springs E E', and hangers D, substantially as and for the purposes explained.

No. 34,137.—JOSEPH EDGECOMB, of Worcester, Mass.—Improvement in Boring Machines.—Patent dated January 14, 1862.—An adjustable frame or stand is hinged or pivoted at its lower end, between the front lower corners of ear-pieces which are fastened to the rear end of the base piece. Projections with screws working through curved slots in the ear-pieces serve to adjust the frame in any inclined position. The front edges of this frame are provided with flanges upon which slide the hooked edges of the gear frame, which latter clasps the flanges only at its four corners. A rack piece is hinged at its lower end to a projection on the left lower side of the frame, the top of which plays back and forth in a slot in the lower side of a tubular projection on the under side of the cap piece which is screwed to the top of the frame. A regulating rod passes through two guide pieces cast on the right side of the rack, said rod being provided with a stop piece and set-screw which fasteus the stop piece to the rod at any desired elevation.

Claim.—First, constructing frame F in curved form, and so as to extend around the flanger d d of frame D, to reduce friction and afford sufficient space for the free operation of the rack

and gearing, substantially as described.

Second, the combination of the curved hinged rack piece M and gear L with frames D and

F. substantially as and for the purpose set forth.

Third, the combination with the top of frame D and rack piece M, of the cap piece N, and its slotted tubular projection m, and its spring n, as and for the purposes set forth.

Fourth, the combination of the adjusting rod O with rack piece M, frame F, and the parts

connected therewith, substantially as and for the purposes t forth.

No. 34,138.—JAMES FITTON, of Cavendish, Vt.—Improvement in Carding Engines.—Patent dated January 14, 1862.—This invention consists in so combining and arranging a moving endless apron with those parts of a carding engine which precede the main card cylinder in operating upon the fibrous material submitted to the action of the carding engine as to receive the droppings from said preceding parts and convey them to the main card cylinder, so that said droppings may be incorporated with the material being acted upon by the engine, and prevented from becoming waste or an inferior quality of material.

Claim.—The arrangement and combination of the apron with the mechanism preceding the main card cylinder, in such a manner that the apron shall extend under the said

mechanism for the purpose described.

No. 34,139.—W. W. FLENNIKEN, of Colony, Iowa.—Improved Water-Wheel.—Patent dated January 14, 1862.—The object of this invention is to prevent the escape or leakage of water around the wheel at its junction with the top and bottom of the scroll, and consists in having the buckets of the wheel at their lower parts and on the ends connected together so as to form a continuous rim at the bottom of the wheel, the upper edge of the buckets being curved so as to conform to the shape of a deflecting plate which is attached to the top of the scroll and serves to guide or deflect the water so that it will act properly against the buckets

the upper edges of the latter working in close proximity to the deflecting plate.

Claim.—Having the buckets c of the wheel F connected at their outer ends and lower part so as to form a continuous rim all around the wheel, while the upper ends of the buckets are detached, when said wheel thus constructed is used in combination with a stationary deflecting plate E, placed at the top of the wheel and secured to the scroll A; all being

arranged as and for the purpose set forth.

No. 34,140.—HENRY B. GOODYEAR, of New Haven, Conn.—Improvement in Gaiters.—Patent dated January 14, 1862.—The engraving and claim explain the nature of this

Claim.—As a new article of manufacture, a gaiter wholly or in part elastic made of vulcanized India-rubber, or of its elastic compound, or its equivalent, and backed by a knit web or other textile tensible fabric, the upper surface being varnished, and the whole constructed substantially in the manner set forth.

No. 34,141.—WILLIAM GRAICHEN and C. HOFFMAN, of Clinton, Mass.—Improvement in Power Looms.—This invention consists first in the peculiar construction of and mode of applying and operating the grids, whereby they are made to act only upon the thread of the shuttle that is in operation and passing into one of the boxes, and not upon the threads of the shuttle or shuttles that are at rest in the boxes; second, in the mode of combining one of the feeling forks with the lever by which the belt shifter is thrown out of its notch, to throw the loom out of gear when the filling has broken or given out; third, in the positive stop mechanism to stop the loom after it is thrown out of gear.

Claim.—First, the grids Λ A', constructed with projections a a, in front of the lower parts of their dents b b, applied in guides formed in, or upon, or attached to the lay, and having a

rising and falling motion, substantially as and for the purpose described.

Second, operating the so-constructed grids by means of a rock-shaft B, arms e s g, a spring f, and a fixed stud h, the whole applied, arranged, and combined substantially as specified.

Third, the feeling-fork lever E working on a fixed fulcrum and combined with the horizontally moving lever H, which acts on the belt shipper by means of a bent lever G, attached to the said lever H, and connected with E, substantially as specified.

to the said lever H, and connected with E, substantially as specified.

Fourth, the positive stop motion composed of the stop piece v, on the lever H, the rod T, the spring y, the lever s, and stop-wheel q, and spring z, the whole arranged, combined. and

operating substantially as and for the purpose specified.

No. 34,142.—JOHN J. HALEY, of South Dedham, Mass.—Improved Rollers for Wringing Machine.—Patent dated January 14, 1862.—The object of this invention is to firmly unite the ruber roller with a metallic shaft; and consists in first applying a coating of copal variable to the metal shaft, then closely winding a small twine upon the same, and applying one or more coatings of India-rubber or other adhesive cement; the same cement being applied to the box of the tube, the latter is then forced upon the shaft.

Class.—The improved roller, made substantially as described.

No. 34.143.—E. C. Hamlin, of Pavilion, N. Y.—Improvement in Car Compling.—Patent dated January 14, 1862.—The object of the adjusting circle is to allow the link to spring either way on the pin p as a fulcrum without cramping the points of the adjuster, in case the link is pressed in either way, on a curve or in backing; the yoke y serves to prevent the jaw A non opening except when a car is to be coupled or uncoupled.

Claim.—The employment in self-couplers for cars of a link with a circular head and slot, as described, in combination with the adjusting circle C and follower F. Also the combination and arrangement of the adjustable clamping yoke y and pin p with the lever R and pawl

7, as and for the purposes specified.

No. 34,144.—Adam Hawver and W. H. Hanven, of Galva, Ill.—Improved Churn and Buter Worker.—Patent dated January 14, 1862.—The dasher is arranged to work over an inclined bottom and in connexion with a concave at its lower end, whereby the cream is kept consumity agitated and subjected to a great amount of friction.

constantly agitated and subjected to a great amount of friction.

Claim.—The dasher D, staff E, concave C, inclined bottom B, partition c d, circular flange c and section g, when combined, arranged, and operating in the manner and for the purpose

set forth.

No. 34,145.—Josiah Hayden, of Columbus, Ohio.—Improvement in Water Elevators.—Parent dated January 14, 1862.—This invention relates to the construction of the bucket, the mode of tipping, the construction of the chain and windlass wheel, and the devices for changing the direction of the windlass wheel without reversing the direction of the crank.

Claim.—The special arrangement of the shifting gears N P in combination with the windless wheel K, flat chain L, bucket E, pin G, and bail C, when these parts are arranged and

perated in the manner and for the purposes set forth.

No. 34,146.—JAMES JENKINS, of Elizabeth, N. J., and GEORGE H. COOK, of New Branswick, N. J.—Improved Method of Working Silicious and other Calamine Ores of Zinc.—

Paten: dated January 14, 1862.—The claim explains the nature of this invention.

Claim.—The use of oxide of iron, iron ore, lime, or limestone or other basic substance, either separately or mixed, as a flux or fluxes, for separating the silica and other earthy imparities from the zinc contained in the silicious and other calamine ores of this metal, in the manner substantially as set forth, these ores being first prepared for working in the common way.

No. 34.147.—Henry Isham, of New Britain, Conn.—Improvement in Water Metres.—Paent dated January 14, 1862.—This invention consists in combining two or more metres by a compound valve operated by the force of the current of water so that the water to be a charged shall be directed to and made to pass through that meter which bears the nearest that in capacity to the size of the stream of water discharged.

Combining two or more water metres, substantially as described, by means of a compound valve, or the equivalent thereof, substantially as described, and operated by the

torce of the passing water, as set forth.

No. 34,148.—ROBERT A. HOOE, of Washington, D. C.—Improvement in Tobacco Pipes.—Public dated January 14, 1862.—The engravings and claim explain the nature of this invention.

Claim.—Making the body of a pipe of three main divisions, to wit, a removable tobacco chamber having a perforated metallic base and metal sides; a smoke-circulating chamber, and a saliva reservoir opening from below, the whole being constructed, arranged, and combands substantially in the manner and for the purpose described.

A.so, the main division A in combination with the main division B, the two divisions being

in the manner and for the purpose described.

No. 34,149.—CHARLES LEAVITT, of Cleveland, Ohio.—Improvement in Carriage Wheels.-Patent dated January 14, 1862.—The object of this invention is to secure the largest number possible of spokes upon the hub, and requisite degree of disk and to remedy any looseness caused by shrinkage of the spokes by screwing up the nut that holds the parts together.

Each spoke has a bearing upon the pipe box.

Claim.—So dividing the two parts of the hub F and G into alternate depressions and projections, having their longitudinal faces bounded by radial lines from the centre of the axle, and filling the alternate spaces a' and c with spokes, in such a manner that each spoke shall have in part a metallic bearing upon each side, filling the entire space with spokes, as described, in combination with the concave face of F and the convex face of G, the nut H, and cap K, operating as and for the purpose set forth.

No. 34,150 .- JAMES LEFFEL, of Springfield, Ohio .- Improved Water-Wheel .- Patent dated January 14, 1862.—The invention consists in so constructing the valve gates and combining them with the buckets as that when a small quantity of water is used it is caused to impinge against the bucket of the wheel at its outer or greatest diameter, whereby the greates: amount of leverage is obtained. The valves are made adjustable for admission of more or less water, as may be necessary.

Claim.—First, the combination of the parts B, C, and D with the buckets a and b, arranged

in relation to each other as and for the purposes set forth.

Second, the combination and arrangement of the parts mentioned in the above claim with the valves or gates H and the wheel casing E, composed of the parts F, G, and E', substan-

tially as described.

Third, the combination of the wheel A, as seen in Figs. 2, 3, 4, and 5, with its casing valves, and the means for operating the same, as seen in Figs. 1 and 2, when said parts are constructed and arranged to operate in relation to each other, as set forth.

No. 34,151.—RICHARD F. LOPER, of Philadelphia, Pa.—Improved Means for Corcres. and Repairing Iron Ships and other Navigable Vessels .- Patent dated January 14, 1862. The object of this invention is to utilize old iron vessels that have become leaky and unsa-

by wear or rust.

Claim.—The planking of old iron boats or second-hand vessels, as set forth, whereby a claim.—The planking of old iron boats or second-hand vessels, as set forth, whereby a claim. safe and good vessel or boat can be made out of any iron vessel or boat after the iron has

become thin by wear or rust, as described.

No. 34,152.—J. W. MACKINTIRE, of Woburn, Mass.—Improvement in Stalls for Horses.—Patent dated January 14, 1862.—This invention consists in arranging the stall so that the head of the horse shall face the middle of the floor or passage-way. The V-shaped tack is placed in the door and hinged at the lower part, so as to be thrown forward or back to desired.

Claim.—My improved stall, as constructed with the opening B, the door C, and the rack

E, applied and made to operate together, substantially in the manner set forth.

Also, the V-shaped rack, arranged and made to operate in the manner set forth.

No. 34,153.—Benjamin A. Mason, of Newport, R. I.—Improvement in Casting Projection for Fire-arms.—Patent dated January 14, 1862.—The object of this invention is to form by pressure that kind of projectile known as the Minie ball.

Claim.—The reciprocating dies and plunger, substantially as described, in combination with the hopper, provided with the spring stops or equivalent means for holding up the say

of lead until it is acted upon by the plunger, as set forth.

No. 34,154.—ROBERT McCain, of Rootstown, Ohio.—Improvement in Feed-Cutters.— Patent dated January 14, 1862.—A detachable tin box is placed on the top of the feeding box. with the bottom inclined downwards towards the rollers, for the purpose of conveying the broken or finer material to the knife.

Claim.—The detachable box Y, in combination with the feed and cutting apparatus, ar-

ranged as and for the purpose set forth.

No. 34,155 .- THOMAS McDonough, of Middletown, Conn .- Improved Hot-air Engine .-Patent dated January 14, 1862.—The invention consists in the employment of the plunger as a cylinder and a chamber to contain the wires that take up the heat, while it also does the usual duty of the plunger in air engines.

Claim.—First, a plunger, containing a piston and chamber, and moving through a fixed

packing ring, substantially as described.

Second, the bowl D, upon the end of the plunger, substantially as described.

Third, the connexion of the piston and fly-wheels by side rods, in combination with the open plunger, substantially as described.

No. 34, 156 .- MARVIN MEAD, of Bedford, Mich .- Improvement in Tire-upsetting Machine .-Patent dated January 14, 1862.—The arms B B and levers E E being first opened, the heated

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ire is placed between the concave clamp F F and points i i, and the anvil G adjusted in proper position. The levers E E are then drawn together, causing the tire to be clamped

ind upset.

Claim.—The employment of the concave adjustable clamps F F, when arranged and used with the arms B B, the levers D E, the connecting rods C C, and rest G, the clamps being ounceted to the levers D by means of a ball joint, and their ends being formed so as to lap is joint on the outside of the tire, and for the purpose specified.

No. 34,157.—MARTIN METCALF, of Grand Rapids, Mich.—Improvement in Comb Frames or Bec-Hiers.—Patent dated January 14, 1862.—The engravings and claim explain the invenion, the object being the easy removal of the frame, to avoid irritating the bees during the

Claim.—Constructing the top bar A and side bars B of adjustable frames for bee-hives with the bevelled ends a b in the manner described, when used in connexion with a movable

front, and in a rectangular box or hive.

No. 34.158.—Freedom Monroe, of Romeo, Mich.—Improvement in Machines for Filling Wagon-Ruts on Higheonys.—Patent dated January 14, 1862.—The invention consists in attaching scrapers to a frame between the forward and hind wheels of a common two-horse wagon, the former ends of the scrapers being so arranged as to fill the rut immediately after the wheel.

Cisia.—The frame-work which stands upon the ground, the posts each side, the beach and wheels on top, the post and lever, the pulley and cord, the platform, the driver's seat, and the post passing up through the same, the hooks, band, and straps round the axletree, in combination.

No. 24,159.—WILLIAM MOREHOUSE, of Buffalo, N. Y.—Improvement in Spoke-tenon Auters.—Patent dated January 14, 1862.—This invention has for its object the adaptation of a single spoke-tenon auger to the capacity for work of several augers of a like character, but a different sizes, or which is capable of cutting different sized tenons.

Claim. - First, a centre-sliding plug, which performs the double function of centring and

ranging the varying sizes of tenons.

Second, a graduated centre-sliding plug, in combination with a tubular sleeve, a compressible spring, and a surrounding tubular socket.

Third, a tubular sleeve, carrying a centring pin, in combination with a compressible ring, a steady pin, and a surrounding socket, substantially as described.

Fourth, knife blocks and guide blocks, having scolloped inner ends, as described, in com-

sinstion with a graduated centre-sliding plug and tubular sleeve, as described.

Fitth, making the shank C and steady pin f in one piece, and confined to the socket A by a intermediate screw body, which forms shoulders for one end of the socket and one end of le spring to abut against.

No. 34,160.—CHARLES MONSON, of New Haven, Connecticut.—Improved Extension Table.—Patent dated January 14, 1862.—The leaf B is constructed in the form of a box inerted and placed between the two ends a a and parallel to the leaf A. The two leaves are panected together and to the stand C by two sets of parallel levers, by which the leaves are rade to assume the desired position.

Claim.—The improved extension table, as constructed with two leaves A B, combined

is the stand C, by means, and so as to operate substantially as specified.

Also, in combination with the leaves and stand, when made and applied together, as described, the finishing bars or strips F F to be arranged in manner and for the purpose, Ristantially as set forth.

No. 34,161.—FRANCIS MURGATROYD, of Cleveland, Ohio.—Improvement in Oscillating Seem Engines.—Patent dated January 14, 1862.—This invention consists in constructing all applying a reversible disk valve and seat to steam engines, which will open two ports to wan and two to exhaust at the same time, forming a more effectual opening for steam to the piston and a more free exhaust.

Claum.—First, the combination of the openings s s and e e so as to open two ports to

wan and two to exhaust at the same time.

road, the valve figure 7, in combination with the reversing lever O', by means of bach the engine can be reversed at pleasure, as specified.

No. 34,162.—CHARLES NEER, of Albany, N. Y .- Improvement in Metallic Blinds for Windows.—Patent dated January 14, 1862.—This invention relates to a metallic strip for receiving tenons of the blind when applied to and combined with a metallic frame, also to the con--action of metallic slats applied to said frame and the manner of fastening the slats.

Claim.—First, the strips c, bent or folded, as shown, and applied to the iron blind frame, composed of the vertical stiles a a, united to each other by the cross bars or rails b b, the

receiving the tenons of the blind slats, as set forth.

Second, the metallic slats e e, attached at their lower corners and provided with the disk 5 and spring 6, for the purposes and as set forth.

Third, the bars h, hinged to the blind frame, as set forth, so that they can be turned against the slats to keep them shut, as specified.

No. 34,163.—A. M. PENISTON, of Wellington, Missouri.—Improvement in Seeding Machines.—Patent dated January 14, 1862.—The rock shaft is made to operate the ball valves so as to open or shut off the supply of seed in the conductors, so that seed may be deposited

in hills or drills as desired. Claim.—The arrangement and combination with a seed planter, substantially such as described, of the rock shaft op p, plug or ball valves q q, lever r, with a curved slot u, and

the sliding clutch v, as and for the purposes set forth.

No. 34,164.—WM. S. SAMPSON, of New York, N. Y.—Improvement in Grain Bins.—Patent dated January 14, 1862.—The object of this invention is to utilize the entire space of and obtain great strength in grain bins, when constructed as stated in the claim.

Claim.—Forming the bins of a granary for storing grain in bulk of alternate cylindrical chambers, and chambers formed partly of flat walls and partly of portions of each of the co-

tignous cylinders, substantially in the manner and for the purpose as set forth.

No. 34,165.—JOHN B. SARDY, of New York, N. Y.—Improved Construction of Ships-of-War and other Navigable Vessels.—Patent dated January 14, 1862.—The object of this invention is to obtain carrying capacity sufficient for the battery and for machinery powerful coord to obtain high speed and sufficient supply of coal without so great a draught of water as a render it impracticable for the vessel to enter most bays, harbors, or other inland water, and also so to construct the prow that it may serve as a battering ram.

Claim.—Tthe combination of two or more stern posts a a, two or more keels d d, and to or more propellers h h, or other motors revolving in the same vertical plane, constructed and operating in the manner and for the purpose described, in order that greater buoyancy, speed

and capacity may be obtained.

Also, the combination of the central keel c, with keels d d, and propellers h h, and in clined runs b b, substantially as specified. Also, the pointed prow, tapered in all directions, when used in a hull, as before described

No. 34,166.—John Schaffer and Edward Spencer, of St. Louis, Mo.—Improved Hand Printing Press.—Patent dated January 14, 1862.—The object of this invention is to print the usual stamp on the back of railroad tickets or coupons, with the face of the ticket turned up wards, and at the same time make a row of perforations between the tickets when a number of them are printed together on one strip of paper, so that they may be more readily ton

Claim.—Making a hand stamping press, substantially in the manner described, so as a stamp and perforate the ticket, ink the form, and supply the ink to the inking roller, in ser-

gle operation, substantially in the manner set forth.

No. 34,167.—J. A. SCHNEIDER, of Cleveland, Ohio.—Improvement in Truss Pais.—Patent dated January 14, 1862.—The engraving and claim explain the nature of this inventory. tion, the object being ease of adjustment while the apparatus is worn.

Claim.—A truss, consisting of a slotted pad N, a pad plate, made of a slotted part G. 321 a part G', in combination with a sliding piece C, hinge J J, and spiral spring F, when the parts are arranged in relation to each other, as set forth.

Also, a pad plate, made in two parts G G', the part G being adjustable so as to cause

the pad attached to the pad plate to bear obliquely, as set forth.

No. 34,168.—H. C. SMALL, of East Limington, Maine.—Combined Writing Case and Checker-Board.—Patent dated January 14, 1862.—The object of this invention is to combine a writing case and checker-board in such manner that the latter shall occupy but compartively little room in the former, which, besides, has apartments for pens, ink, postage stam, and checkers in one part, and for envelopes, penholders, and pencil in another part: checker-board, when removed from the writing case, answering either for games or for a will ing desk, and the whole, when packed, brought into such small compass as to be carried in a soldier's knapsack or pocket without inconvenience.

Claim.—The checker-board, made of strips of wood, or other suitable material, attached together in the manner described, in combination with the writing case, the whole together

constituting a new article of manufacture.

No. 34,169.—Daniel C. Smith, of Adrian, Mich.—Improvement in Stump Extractors—Patent dated January 14, 1862.—The invention consists in the combination with a level of a tackle and shoe mounted on two wheels, and an axle, in such a manner that the whole weight of the machine may be thrown on or off the wheels at pleasure.

Claim.—First, the combination with a tackle, block, and rope of a beam A, with a shoe B and shoe D attached thereto, the whole being mounted on two wheels and axle, as described, for the purposes set forth and described.

Second, the combination of the shivers F F F, for the purpose of allowing the team to

draw at any angle, as described.

Third, the combination with the chain 1 1, of the windlass 9, drum 8, rope 7, windlass X, crank Z, and pawl Y, for the purposes set forth and described.

No. 31,170.—JOHN TAGGART, of Roxbury, Mass.—Improvement in Pegging Machines.— Patent dated January 14, 1862.—The object of this invention is to prevent the breakage of the peg, and obviate the failure to drive it into the hole for its reception by the rebounding of the bammer while the shoe is in motion. By means of the lasting mechanism, a shoe may be lasted and prepared ready for having an outer sole pegged to it.

Claim.—The combination of the back-latching mechanism, or stud l and spring catch and straightful the state of the

m. and its unlatching mechanism, or lever h and cord o, with the hammer and the peg-

driver.

Also, improved lasting mechanism, having its parts constructed and applied in manner as set forth, and so as to operate together, as described.

Also, the combination of the eccentrics b2, the lever a2, and their pitmen yz, as applied to the shaft 22, and each side of the lasting block, and its heel and toe clamps, as described.

No. 31.171.—NICHOLAS TALIAFERBO, of Augusta, Ky.—Improvement in Revolving Ord-Mace. Patent dated January 14, 1862. — The front cheek is recessed to afford facility for coding and swabbing. A steel brush or ferule is adapted to be screwed into the enlarged est end of the bore so as to be replaced by a new one whenever necessary, by which means constantly gas-tight joint at the breech is maintained. The water serves to cool the breech, at may be applied to the inside or outside of the cheeks.

Claim. - First, the arrangement of recessed front cheek I I I i i', rear cheek M, revolving rech NOR, and dovetailed bearing PQ, the whole being combined and operating sub-

tantially as set forth.

Second, the screw-threaded bush V, adapted for insertion within, and removal from, the

ar end of the bore of a breech-loading cannon, in the manner and for the object stated.

Third, supporting a cannon upon a downwardly projecting ball trunnion G, confined within socket D, and resting upon an adjustable step E, all substantially as shown and explained. Fourth, the described application of water pan W, inclosing the lower portion of the revolv g breech NOR, as set forth.

No. 34,172.—SETH D. TRIPP, of Stoneham, Mass.—Improvement in Machines for Cutting dis for Boots and Shoes.—Patent dated January 14, 1862.—This invention has for its ject cutting welts for boots and shoes, which will automatically adjust its cutter so that eleather strips which are of rectangular form, or nearly so, will be cut precisely through rentre and in an oblique direction; the cutter being so operated as to conform to the direction thickness of the leather strip to be cut, and the varying thickness of each individual in so that the two pieces which are formed of each strip will correspond precisely in ckness, whatever the thickness of the strip may be.

Claim.-First, the employment or use, in connexion with the feed rollers C D, of a cutter arranged and connected with the yielding roller D, in such manner as to be turned or usted automatically by the yielding movement of said roller, substantially as and for the

Tose set forth.

Second, forming the cutting edge of the cutter L, by means of the basils f f' f'', which rectively above, below, and at both sides of the cutter, as and for the purpose specified, Itid, having the shaft E of the lower roller D fitted in a tube F, which is connected by is d, with a rock shaft G, and acted upon by a spring H, when said parts are used in conwith the cutter L. connected with the shaft G, and all arranged as and for the pur-™ set forth.

No. 34,173.—J. E. VAN WINKLE and JOSHUA MASON, of Patterson, N. J.—Improvement Meters .- Patent dated January 14, 1862. - The axis constitutes a valve for the inducand eduction of the liquid to and from the measuring chambers. It contains a partition volue the inlet from the outlet passages. On the inlet side of the partition in the upper it of the axis there are two ports, and on the outlet side two similar ports. Two ports of milar size and form are placed in the socket, and communicate with each measuring cham-The oscillation of the box communicates motion to the registering apparatus.

Claim.—The combination of the stationary, partitioned, slotted, hollow receiving and disarring axis B, with the oscillating water box A, substantially in the manner shown and wribed, so that the water will enter, operate, and be discharged from the compartments said box, through the said axis, all as set forth. The combination of the air-connecting pe D with the compartments a a', substantially as and for the purpose shown and dembed nbed.

No. 34, 174.—C. P. S. WARDWELL, of Lake Village, N. H.—Improved Planing Machine.—Patent dated January 14, 1862.—The bed plates are hinged to the bed frame, and, with the gauges, support, gauge the position, shape, and thickness of, and deliver to the cutter head the clapboards for dressing, edging, and planing. Adjustable saws are mounted on an arbor, by which the thick edges of the clapboards are jointed or edged, and cutters, placed imprediately behind the saws, serve to smooth the straightened edges of the clapboards. Serrard wheels project up through the bed plates, and serve to keep the clapboards in line and position. Two delivery bars, having inclined projections, are so arranged as to raise or lower the edges of the bed plates, as desired. The curved plates, with their connexions, serve to keep the splinters and shavings pressed down, and hold the clapboards steadily down upon the bed plates.

Claim.—The hinged bed plates L L, arranged and operating substantially in the manusc

and for the purposes specified.

Also, the gauges D D, adjustable on and in combination with the bed plates L L substantially as described.

Also, the combination of the adjustable edging saws G G with the hinged bed plates L

L and adjustable gauges D D, substantially as and for the purpose set forth.

Also, the combination of the vertically adjustable bed E and hinged bed plates L L with

the cutter head W, substantially as specified.

Also, the combination of the doubly adjustable guides A A with the hinged bed plates L. adjustable odering saws G G. and gauges D D. substantially as set forth.

L. adjustable edging saws G G, and gauges D D, substantially as set forth.

Also, the combination of the smoothing cutters S S, on the gauges D D, with the edging

saws G G, for the purpose set forth.

Also, the obliquely situated serrated wheels R R, whether acting in connexion will or in the place of the rollers Q Q, in combination with the gauges D D, arranged and operating substantially as and for the purpose specified.

Also, the combination and arrangement of the sliding bars O O and their inclined rejections n n, and connecting lever P with the inclined projections o n, on the bottom of belinged bed plates I. L. operating substantially as and for the number set forth.

hinged bed plates L L, operating substantially as and for the purpose set forth.

Also, the combination of the two curved pressure and fender plates V X, mounted respectively on hinged arms r r and w w, and drawn down by springs v with the caucihead W, substantially as specified.

No. 34, 175.—DYER WILLIAMS, of Syracuse, N. Y.—Improvement in Locomotive Arlex—Patent dated January 14, 1862.—The invention consists in forming the axle in separate pieces, and forging the crank arms and wrists separately, the crank arms being should pressed upon the parts of the axle which are shouldered to fit them, and the wrists bear similarly connected to the outer ends of the crank arms.

Claim.—The improvement of locomotive engines by the employment of a crank are

constructed in the manner and for the purposes set forth.

No. 34, 176.—W. W. WILSON, of Collins Station, Ill.—Improvement in Corn Plants.—Patent dated January 14, 1862.—This invention relates to that class of machines which include the furrow, deposit the seed and cover it at one operation, and it consists in an arrangement seed, distributing devices, and adjustable ploughs, whereby the implement is made to work with accuracy, and adapted to plant to any desired depth.

Claim.—The distributing wheels E, cups f, hoppors F G, frames g, rods a, conductive tubes b, adjustable ploughs I, standards J J, guides c, and double brackets d, with the first of the machine, when combined, arranged, and operating in the manner described.

C, with each other, substantially as and for the purpose set forth.

No. 34, 177.—JOHN F. WINSLOW, of Troy, N. Y.—Improved Machine for Compressing Puddle Balls.—Patent dated January 14, 1862.—The invention consists in upsetting a block or blooms of iron at the ends thereof, while being worked by two rollers and a cam or exercise, by means of a bar or hammer moving horizontally in connexion with a steam cylinder, combined with a cam or eccentric wheel.

Claim.—The combination of the steam cylinder F, the ram or hammer R, the cam where

No. 34,178.—ALFRED M. BAILEY and JOHN O. COUCH, assignors to the METROPALITAN WASHING MACHINE COMPANY, of Middlefield, Conn.—Improved Clothes Wringer.—Partle dated January 14, 1862.—The invention consists in so constructing and arranging the spring and stop that when the machine is acting upon thick masses of clothing it may not disting gear wheels one from the other, while it may still render available the effect of the whole a portion of its springs.

Claim.—In clothes-wringing machines, having rollers A B geared together at one end by gear wheels M N, constructing and arranging the spring or springs and the stop H or is

equivalent, substantially as and for the purposes set forth.

No. 34,179.—John W. Barker and James P. Haskin, of Syracuse, N. Y.—Improved in Purifying Common Salt.—Patent duted January 14, 1862.—The claim explains the name and object of the invention.

Cleim.—The mode of decomposing the impurities in common salt by immersing or washing ki za a solution of any one or more of the carbonates of ammonia, or of any one or more of the sulphates of potash, sods, or ammonia, or of any combination of any of the above-named ales in saturated brine, as set forth, through which means the chemical results stated are produced.

No. 34,180.—Ralph Emerson, Jr., and F. Graham, assignors to Ralph Emerson, Jr., of Rockford, Ill.—Improvement in Mowing Machines.—Patent dated January 14, 1862.—The

in ention consists in a combination of devices explained by the engravings and claim.

Claim.—The combination of the bent axle c and hand lever G with the arm F and bracket f. when arranged for joint operation relatively to each other and to the machine, substantially the manner described for the purpose set forth.

No. M. 181.—RALPH EMERSON. Jr., and F. GRAHAM, assignors to RALPH EMERSON, Jr., of Rockford. Ill.—Improvement in Harvesters.—Patent dated January 14, 1862.—The invention consists in a combination of devices arranged for joint operation, and also in the construction of a fager beam which shall permit the guard fingers to be readily fastened to or removed from it, and, while in place, to be securely retained.

Claim.—The combination of the gearing frame, finger, beam, shoe, and drag strap with the ling lever F and detent standard G, when the whole are arranged for joint operation,

substantally in the manner described, for the purpose set forth.

Also constructing the finger beam of a single sheet of metal bent near its centre into a U depe so that the upper part shall project beyond the lower a sufficient distance to form a bedge to which the guard fingers may be secured, substantially in the manner described

As fastening the guards to the upper part only of the finger beam, bent as described, in combination with the shoulders upon the shanks of the fingers, substantially in the manner

50.34.182.—MARKS FISHEL, assignor to Himself, ADOLPH OPPER, and LEO POPPER, of York, N. Y.—Improvement in Skeleton Skirts.—Patent dated January 14, 1862.—The marings and claim explain the nature and object of this invention.

Claim Securing the hoops A A to the tapes B B by means of fastenings D, or their deltalents, passing through the eyelets C C and across a portion of the tape between them, assume ally as and for the purposes set forth.

No. 34, 183.—J. H. Linville, assignor to Himself and L. J. Piper, of Altona, Pa.—

**Provement in Iron Truss Bridges.—Patent dated January 14, 1862.—This invention conin the construction of the lower chords and the mode of applying the same in combinam with the posts and other parts of the truss, and also in the method of constructing the exts of wrought and cast iron.

Claim. - First, the construction of the lower chords of truss bridges of series of wide and m dn'led eye bars C C applied on edge between ribs S S on the bottoms of the posts and merced by pins P P, supported in the diagonal tension braces D D and E, all substan

biy as described.

Second, the posts OALOAL, composed each of two wrought-iron plates or bars a a, take pieces b b, and rivets JJ, or their equivalents, and cast-iron braces LL, and capi be 00, the whole combined as specified.

No.34.194.—MARCUS P. NORTON, assignor to Himself and Charles EDDY & Co., of Iro, N. Y.—Improved Hand Stamp for Post Offices.—Patent dated January 14, 1862.—The Egying and claim explain the nature of this invention.

Claim.—The combination of four cylinders a b c d, upon the shaft C, with the stationary was type D D, whereby the day, month, and year are given together by one impression,

subuntially as described and set forth.

Abo, the combination of the shaft C with four cylinders $a \ b \ c \ d$ thereon arranged, with the fram B, whereby the said cylinders are firmly held in their adjusted position, substantially scribed and set forth.

No. 24,185.—ALLEN WALTON and JOHN L. KITE, assignors to ALLEN WALTON, of Philade:pha Pa - Improvement in Process of Manufacturing Illuminating Gas. - Putent dated January 14, 1862.—The object of the invention is to abstract from the gas the superfluity of Carbin and other impurities, so as to render it more fit for illuminating purposes.

Claim.—Injecting a steady and continuous stream of air into a retort in which gas is gen-

erated from coal-oil, or its equivalent, as and for the purpose set forth.

No. 34, 186.—John Powers and E. M. Smith, assignors to J. S. Mitchell, of New York, N. Y.—Improvement in Harvesters.—Patent dated January 14, 1862.—The object of the devices under the first claim is to allow the finger bar and sickle to conform to the irregularities of the surface of the ground, and also to be raised bodily so as to pass over obstructions or turned entirely out of the way when the machine is drawn from place to place. The second and hird claims, with the engravings, explain themselves. Digitized by

Claim.—First, the attaching of the finger bar A to the main frame G of the machine in means of the bars D D connected by joints a a to the upright sliding bars F F on the main frame G, substantially as and for the purposes set forth.

Second, the use of guard finger having backs h and edges k k extending continuoualong the bar so as to present closed surfaces in front and beneath, and formed with changes or grooves i extending beneath the sickle bar and partially around the bolt holes I, and on at back to permit the ready escape of moisture, dirt, gum, or trash which may work und neath the sickle bar.

Third, having the bar N, which forms a portion of the lifting or elevating mechanism of the finger bar A, fitted loosely underneath the main frame H, to admit of longitudina par of said bar for the purpose of allowing the finger bar to be turned up against the main man

No. 31,187.—T. C. Andrews, of Leverington, Pa.—Improvement in Tobacco Piper-I'atent dated January 21, 1862.—The object of this invention is to admit of the resty de tachment of the perforated holder, for the purpose of cleansing both holder and bowl.

Claim.—The tobacco holder C, with its perforated base and the flange e, or its equivalent when applied to the bowl of a pipe, and serving as a detachable lining for the same, as an

for the purpose set forth.

No. 34,188.—LEWIS BAIRD, of Cambridge, Mass.—Improved Mode of Presenting in crustation in Steam Boilers.—Patent dated January 21, 1862.—The claim explains the man and object of this invention.

Claim.—The employment of tobacco, or a decoction or extract of the same, for the purpose of preventing the incrustation of steam boilers, or of removing the scale therefrom.

No. 34,189.—JOHN E. BALDERSTON, of Philadelphia, Pa.—Improved Splicing Ber for Azles.—Patent dated January 21, 1862.—This invention consists of a bar having a journal on which a wheel may be hung, so constructed as to be readily and securely attached to a axle which may become broken at the middle or one end.

Claim. -The splicing bar A with its journal b and the strap bolts e e, the whole being constructed and arranged for application to a broken axle, as and for the purpose set torth.

No. 34,190.—M. W. BALDWIN, of Philadelphia, Pa.—Improved Rotary Engine.—Paka dated January 21, 1862.—This invention consists in the employment of a flexible fairs." combination with rollers, so arranged that a continuous diaphragm of the flexible interposed between a metallic disk and rollers attached to radial arms, which latter are susabs to the shart.

Claim.—The flexible diaphragm and disk, in combination with the rollers, whereby, 1 the action of steam or other fluids between the disphragm and disk, the rollers are property

n the manner described.

No. 34,191.—CHARLES BEIDLER, of Allentown, Pa.—Improvement in Ploughs.—Pairt dated January 21, 1862.—This invention consists in the means of securing the nose of point. mould-board, and landside together by one nut, so that the nose and share may be read !! attached to and detached from the plough, and new ones substituted when required.

Claim.—Attaching the nose F to the plough by means of the screw bolt c passing threat the projections a b of the landside and mould-board, and provided with the collar f and and

brace g; al. arranged as and for the purpose set forth.

No. 34,192.—Magnus Benas, of New York, N. Y.—Improved Tanning Composition— Patient dated January 21, 1862.—The nature of this invention is set forth in the claim.

Claim.—The employment or use for tanning purposes of a decoction of rhatany, toruscilla, and granadilla roots, in connexion with cinchons and cascarilla barks, substantially the proportions specified, and using said solution with Bombay catechu, alum, and common salt, in the proportions about as specified, and substantially as described.

No. 34,193.—THOMAS BLANCHARD, of Boston, Mass.—Improved Scoop Shord.—Prodated January 21, 1862.—This shovel is designed to take the place of the ordinary word scoop, as well as those constructed with sheet motal bowls, as combining strength and E

noss with greater capacity.

Claim.—A scoop shovel, with a bent rim or side B, having a handle A and better !

attached to it, constructed substantially as shown and described.

No. 34,194.—James F. Brooks, of Stafford Springs, Conn.—Improvement is be Scrapers.—Patent dated January 21, 1862.—The object of this invention is to obtain a second control of the second control of scraper which will admit of being so adjusted as to scrape the dirt or earth to either sit, or to scrape the earth up and carry it in front for short distances, and also be capated adjustment, so as to compress the earth and level it where desired.

Claim.—First, the attaching of the scraper C to the frame A of the machine, substantially shown, to admit of the scraper being adjusted in a more or less inclined position, for the **≥**urpose specified.

Second, attaching the draught pole B to the frame A, in the manner substantially as shown, ⇒ admit of the pole being adjusted either at right angles with the scraper or obliquely there-

with, for the purpose set forth.

Third, the combination of the adjustable scraper C and draught pole B. arranged for joint peration, as and for the purpose described.

No. 34,195.—John Bullard, of Stockbridge, Vt.—Improvement in Apparatus for Dis-miling Coal Oil.—Patent dated January 21, 1862.—This invention relates to that class of weters in which the heat to effect distillation is derived from the slow burning away of the charge towards the outlet, and consists in so constructing and arranging the retort as to obtain a draught along the bottom and obliquely downward to the lowest point in the retort throughout the whole of the charge. It also consists in the introduction of steam into and through the bottom of the retort to heat it before firing, and to prevent the vapors condensing in the kiln and being burnt therein. Also, in the means of obtaining a draught through the kila, serving at the same time as a means of condensation of the vapors.

Claim.—An egg-shaped retort, arranged substantially as described, with draught opening at its lower end, so that the unburned contents of the retort will always be within the lines

of the draft, all as set forth.

Second in a retort in which the distillation is effected by the gradual burning away of the charge toward the outlet, the introduction of steam into and through the bottom, substantially and for the purpose specified.

Third, the combination with the outlet of the retort of a still which has its interior pipes Provided with a cold water injection, as and for the purpose shown and described.

No. 34,196.—ALFRED BURCHARD, of Sylvan, Mich.—Improvement in Iron Cutters or Weighs.—Patent dated January 21, 1862.—This invention consists in the use of wrought iron and steel combined, and connected by means of bolts or nuts, in making the running part of A sleigh or cutter; the bolts passing through the runner are made larger at the bottom than the top, so as to pass through the runner in a tapering form.

Claim.—The construction and use of wrought iron or steel braces, supports, bolts, and Euts, when used and in combination with the running parts of sleights or cutters made exclusively of wrought iron or steel, in the manner and form and for the purposes as

described.

No. 34,197.-L. D. Cowles, of Armada, Mich.-Improvement in Carriages.-Patent dated January 21, 1862.—This invention consists in the construction and arrangement of springs of an ordinary two-wheeled carriage, whereby the lateral and jarring motion of the sume, caused by one of the wheels striking against an obstruction in the road or dropping into a rut is neutralized, and a gentle and easy motion given to the carriage.

Claim.—First, the combination of the springs E G, attached to the axle of a two-wheeled

carriage by means of a rolling joint ef, with the stationary spring F, when arranged and

operating in the manner set forth.

Second, the combination of the volute springs H J with the rolling springs E G and stationary spring F, when arranged in the manner described.

No. 34,198.—JOSEPH H. CONNELLY and JAMES W. PHILLIPS, of Wheeling, Va.—Improved Steam Boiler Furnace.—Patent dated January 21, 1862.—This invention consists in the addition of an outside furnace for the purpose of coking the fuel for the main furnace or fire-box. After being properly coked it is pushed back in order to keep up a clear white bat at that point over which the smoke must pass, and where the oil and steam enters. Peroleum or well oil is forced into the inside furnace or fire-box with a jet of steam, where wood, coal, or other fuel is used for the purpose of effecting the combustion of the gases and emonizing the fuel.

Claim.—First, the introduction of petroleum, or well oil, into the furnace of steam beliers by means of the steam jet or pipes, for the purpose of facilitating the combustion of

gases of the fuel, whether wood or coal.

Second, the side furnace a, in connexion with the boiler b, reservoir d, steam pipes c, and in pipes e, constructed and arranged substantially as and for the purposes specified.

No. 34.193 .- ALANSON CARY, of Worcester, Mass. - Improvement in Starting Apparatus for Horse Railroad Cars.—Patent dated January 21, 1862.—The object of this invention is to remely the difficulty of starting a car which may be heavily laden, or when the horses are inclined to be fractions. The apparatus used for the purpose may be operated by the driver, and consists of ratchet wheels attached to the axie-tree or one of the wheels, and two dog levers provided with dogs or moving pawls, operated by levers connected with a hand crank, which, on being turned by the driver, imparts a reciprocating motion to the levers. To avoid

clicking of the hooks on the ratchet wheel while the car is in motion, a cam is fastened tot side of the wheel which comes under projections on the dogs and forces them back clear the ratchet teeth.

Claim.—First, the combination with one of the wheels on the axie-tree of a rail car of ratchet wheel E, or its equivalent, and two dog levers F F', provided with dogs or movi

pawls, substantially as and for the purposes set forth.

Second, the combination of a ratchet wheel or device fast to one of the wheels of a rail of as set forth and a suitable pawl device suspended so as to be free to vibrate or oscill around the axis of said wheel, with suitable mechanism so constructed and combined with a body and platform of the car as to enable the driver to start the car while attending to team at the front of the car, for the purposes set forth.

Third, the peculiar construction and relative arrangement of the dog levers \mathbf{F} \mathbf{F}' , when the pawls and stop devices are well protected by their flanges d d', and whereby one is muto fit and work against the other like a rule joint, and operating levers \mathbf{G} \mathbf{G}' are brought a

over the other, as shown.

Fourth, operating the dog levers F F', by means of the hand crank L, at the front of a car, substantially as shown and described.

Fifth, the mode of throwing the operating dogs in and out of action with the ratchet test

substantially as described.

Sixth, forming the operating dogs e.e., in the peculiar manner set forth, and as shown figure 6.

Seventh, the combination of the dog levers F F', with the tubular projection C', of box (

whereby all friction and wear of the parts, when the starting device is not in operation

avoided, as described.

Eighth, the combination of the tubular brake shaft K, with its hand crank L', and has crank L, with its central shaft, with the fender board on front of the car, substantially a described.

No. 34,200.—John Duke, of Milesburg, Pa.—Improved Roofing.—Patent dated Januar 21, 1862.—This invention consists in forming a composition of gas or coal tar, fine grant and sand and plaster, which, when prepared, is spread upon a roof formed by covering the ratters with boards of different thickness succeeding each other alternately.

Claim.—A roof constructed in the manner and of the materials as set forth.

No. 34,201.—M. EASTERBROOK and J. M. WOOD, of Geneva, N. Y.—Improved in Machine for Peeling Willow.—Patent dated January 21, 1862.—This machine is used to stripping the bark from willow preparatory to its manufacture into baskets. The wheels may be adjusted to greater or less pressure, and the form of their peripheries causes the bark of easily loosened. On leaving the wheels, the willows pass through scrapers made to content to the size of the willow, which strip off the bark, the brushes removing any bark which may have escaped the action of the scrapers.

Claim.—First, the two pressure wheels D F, when provided, respectively, the one with:
V-shaped groove b, and the other with a beaded projection c, and used in combination site a stripping device formed of the projections m, of plate L, for the purpose set forth.
Second, the projections m, attached to yielding slides i, which are fitted in a plate L, between

Second, the projections m, attached to yielding slides i, which are fitted in a plate L, however the bars K K, and arranged in relation with the wheels D F, to operate as and for the purpose specified.

Third, the combination of the wheels D F, projection m, of the plate L, rotary brushes M M and discharging rollers N N, all arranged for joint operation as and for the purpose set forth

No. 34,202.—JOHN D. FLANSBURGH, of Philadelphia, Pa.—Improved Culinary Patent dated January 21, 1862.—This invention consists in providing a supplementary handle cast with the pot, on one side of the same, for the purpose of obtaining a better handle cast with the pot, on one side of the same, for the purpose of obtaining a better handle cast with the pot, on one side of the same, for the purpose of obtaining a better handle cast with the pot, on one side of the same, for the purpose of obtaining a better handle cast with the pot, on one side of the same, for the purpose of obtaining a better handle cast with the pot, on one side of the same, for the purpose of obtaining a better handle cast with the pot, on one side of the same, for the purpose of obtaining a better handle cast with the pot, on one side of the same, for the purpose of obtaining a better handle cast with the pot, on one side of the same, for the purpose of obtaining a better handle cast with the pot, on one side of the same, for the purpose of obtaining a better handle cast with the pot, on one side of the same, for the purpose of obtaining a better handle cast with the pot, on one side of the same, for the purpose of obtaining a better handle cast with the pot, on one side of the same, for the purpose of obtaining a better handle cast with the pot, on one side of the same, for the purpose of obtaining a better handle cast with the pot, on one side of the same handle cast with the pot, on one side of the same handle cast with the pot, on one side of the same handle cast with the pot, on one side of the same handle cast with the pot, on one side of the same handle cast with the pot, one side of the same handle cast with the pot, one side of the same handle cast with the pot, one side of the same handle cast with the pot, one side of the same handle cast with the pot, one side of the same handle cast with the pot, one side of the same handle cast with the pot, one side of the same handle cast with the pot, one side of the same handle cast with th

Claim.—As an improved article of manufacture, the culinary pot described, the same hat it is supplementary handle c, cast thereon, substantially as set forth, and for the purpose

specified.

No. 34,203.—B. W. Franklin, of New York, N. Y.—Improved Fusible Gauge for Imperatures.—Patent dated January 21, 1862.—This invention consists in providing a cup case of other vessel, with one or more suitable compartments, containing an alloy or alloys of metal-whose fusing point having been determined, shall, when attached to a boiler, heater, or both chamber, indicate the temperature.

Claim.—The described fusible gauge, the fusible alloys being used in the peculiar manner specified, thus indicating the temperature by the condition of the alloy, whether the same by

granular, semi-fluid, or fluid, substantially as set forth.

No. 34,204.—WM. C. GOODWIN, of Hamden, Conn.—Improved Folding Arm Chair.—Patent dated January 21, 1862.—The side rails of the seat are made double so as to have the legs in one part and the posts which support the arm in the other, the two parts leving

Time ogether by lapping sacking around the joint and nailing it to both parts, so as to form a ferible hinge, the weight of the seat tending constantly to bind the parts firmly together.

Claim.—The folding arm-chair made with double seat rails, when the substance used for the sacking, or seat, also constitutes the hinges, and the whole is constructed and fitted for use substantially as described.

No. 34,205.—A. H. HASTINGS, of New York, N. Y.—Improved Refrigerator.—Patent dated January 21, 1862.—On opposite sides of the case there are secured two cylindrical chambers connected at their lower part with the bottom of the refrigerator by means of pas-sages provided with valves opening outwards. The cylinders contain piston rods and heads, operated by a lever whose fulcrum is on the top of the case. The operation of the pistons serves to exhaust and rarefy the air in the case and thus reduce the temperature.

Claim.—The described refrigerator as an article of manufacture, constructed, arranged,

and used in the manner and for the purpose specified.

No. 34,206.—OBADIAH HOPKINS, of New York, N. Y.—Improvement in Defending Redoubts by Siells.—Patent dated January 21, 1862.—In the apex of the covering a round hole or opening is made, directly under which is placed a piston, the top of which is slightly concave and secured in a vertical position in a frame, so that by the action of a lever attached to the piston it can be depressed to receive a shell on the top, and then elevated to bring the shell above the covering to be exploded.

Claim.—The application of the mechanical device, or its equivalent, for elevating and exploting shell above the covering at the apex, substantially as and for the purposes specified.

No. 34,207.—CHARLES T. JAMES, of Providence, R. I. —Improvement in Hot Projectiles for Ordnence.—Patent dated January 21, 1862.—The separate point may be readily taken of and put on so that the body of the shot can be heated, and the point put on while cold, for the purpose of producing a shot which, when fired in the heated state, will possess a penetraing power equal or nearly equal to shot fired in the cold state, thus combining in one shot the property of hardness required for effectually penetrating objects fired at with the heat required for setting fire to the same. With the above is combined an expansible packing ring to be expanded by the force of the discharge, so as to shut out windage and take the groves of the cannon, if rifled, and give the rotary motion to the shot.

Claim.—Making elongated shot with a separable point, which can be readily taken off and put on, substantially as and for the purpose specified.

Also, making elongated shot with separable point, substantially as described, in combination with the separable packing, or the equivalent thereof, to be expanded by the force of the discharge, substantially as and for the purpose specified.

No. 34,208.—RANNAH JUSTIS, of Dublin, Ind.—Improvement in Churns.—Patent dated January 21, 1862.—The dasher is made in volute form with a series of slats slightly separated from each other, and provided with four wings placed equidistantly on its periphery. The rotation of the dasher causes the milk to enter the aperture at the conjunction of the largest and smallest portion of the volute, when it is forced out between the slats and impuges against the concave sides of the case.

Claim.—The horizontal open volute dasher E, having door G, wings I, and detachable

shaft C, as and for the purposes set forth.

No. 34,209.—Samuel D. Kendall, of Brooklyn, N. Y.—Improvement in Truss Girders for Bridges.—Patent dated January 21, 1862.—The object of this invention is to obtain a Luss of great strength, in proportion to the weight of material employed in its construction, by means of the combination of devices named in the claim.

Claim.—The arrangement and combination, substantially as described, of the chords ABC, posts DD*, braces EE, tension rods GG, binding blocks FF, and couplings h h. the whole forming a truss girder for a bridge or other structure.

No. 34,210.—Thomas Langham, of Philadelphia, Pa.—Improvement in Knitting Madua.—Patent dated January 21, 1862.—The nature and object of this invention are set

Claim.—First, producing a circular-ribbed fabric by means of a series of self-acting needles so arranged in radial grooves of two stationary plates and so operated that some of the radias shall operate on the outside of the fabric, while others operate on the inside of the are, as specified.

Necond, the employment of radial reciprocating needles made self-acting at both ends, com-hind with the devices described, or their equivalents, whereby the said needles may be so transposed as to operate either on the inside or outside of the fabric, without any interrupcon of the knitting, as set forth for the purpose specified.

No. 34,211.—Lowell G. Merrill, of Angels, Cal.—Improved Mode of Chopping to Pieces Ships or other Wooden Substances under Water .- Patent dated January 21, 1862 .-

The invention consists of two buoys upon which is secured a piece of timber. Through this timber a hollow tool shaft is placed, which may be adjusted to any desired depth. The dbuoys are anchored or secured over a sunken vessel, and the action of the waves, causing a rising and falling or rocking motion, serves to operate the tool which cuts in pieces the sunkar vessel.

Claim.—The construction and arrangement of the several parts A B C D E and a, in the manner described, to be operated by the action of the water, as described, for the purpose

stated.

No. 34,212.—F. S. MERRITT, of New York, N. Y.—Improvement in Cooking Rangu-Patent dated January 21, 1862.—In the back part of the fire chamber of a cooking range is placed a rotating cylinder or frustum of a cone, one side of which is of fire-brick or other material, and the opposite side forming a water back, an air-heating chamber being betweenthe two, so that either the fire-brick or water back may be made to form the back of the fire chamber, and an air-heating chamber obtained which may be used in either of the two potions of the cylinder or frustum of a cone. The frustum works on tubular trunnions which connect with the water back; on turning the frustum so that the water back forms the back of the fire chamber water flows into the water back; but when turned so that the fire back forms the back the flow of water is stopped.

Claim.—First, the combination of a fire-brick C and water back E, arranged at the back part of the fire chamber A of a cooking range, so as to form a cylinder or a frustum of a cook and be rotated so that either the fire-brick or the water back may form the back of the fire

chamber, as desired.

Second, the air-heating chamber F interposed between the fire-brick C and water back E. when the same are suspended and made to rotate, as and for the purpose specified.

Third, the tubular trunnions a^* , provided with passages d d', in combination with the sockets b^* b^{**} , provided with the holes or openings e e, and arranged and applied to the rotating water back E, as shown, to automatically stop and start the flow of water through the water back E, as set forth.

Fourth, rotating the frustum D by means of the pins or teeth f and screw H, when the latter is placed or formed on a rod I, which passes through the range at one side of the fire chamber, so that the frustum can be turned by the operator or attendant at the front of the

No. 34,213.—A. W. Morse, of Eaton, N. Y.—Improvement in Track-Clearers in Moving Machines.—Patent dated January 21, 1862.—The track-clearer is attached to the rear of 🗷 outer end of the finger-bar by a hinged joint, and is made in three parts. Two guides of segmental form are attached to each side and permanently fastened to the lower part of the clearer, between which the upper part is raised and supported, being held at any desired part by a set screw or bolt.

Claim.—First, a track-clearer to a grass harvester, capable of being expanded vertically and adjusted laterally, in combination with an adjustable handle, attached to it in such a manner as to regulate its capacity as circumstances may require, substantially as and for the

purpose set forth.

Second, the adjustable handle M. when combined with a track-clearer, by means of the socket and fastening, substantially as and for the purpose specified.

No. 34,214.—James Piercy, of Bloomfield, N. J.—Improvement in Washers for Page Pulp.—Patent dated January 21, 1862.—The bearing of the journal boxes of the washer 3 permanently fixed to the upper edge of the plate or valve board, so that when the journal boxes are raised by means of the rack, the box on the side next to the side of the vat will carry up with it the plate, the lower portion of which will be brought over the opening in the side of the vat for the purpose of discharging water from the vat.

Claim.—The combination of the washer B, its journal box e, and the valve board C, units

a method of construction and operation substantially as described.

No. 34,215.—B. F. RAY, of Baltimore, Md.—Improvement in Harvesters.—Patent date. January 21, 1862.—The invention has for its object economy in the cost of construction. and curving the continuous bar insures a sufficient degree of elasticity to avoid injuries consequent upon contact with stones or other hard substances. The arrangement of deriver claimed is designed for more readily raising and lowering the cutter bar and frame while the machine is in motion.

Claim .- First, making the frame bar and the frame of the cutter bar of one continuous

piece, having the curved part z as described.

Second, the arrangement of the bearings and boses of the rocker shaft, in combination with the friction roller and cam groove, as described.

No. 34,216.—A. T. RUSSELL, of New York, N. Y.—Improved Cork-Screw.—Patent data! January 21, 1862.—This invention is fully explained by the engraving and claim. Claim.—The application of the cam or eccentric and piston as a leverage or power to

attach to cork-screws, for drawing corks or stopples from bottles. Digitized by GOOGIC

No. 34,217.—WILLIAM SELLERS, of Philadelphia, Pa.—Improvement in Mode of Transmitting and Arresting Motion.—Patent dated January 21, 1862.—Rotary motion is transmitted from one shaft to another by means of a ratchet wheel and pawl, the latter being attached to the driven shaft, and so arranged that while retained in gear with the ratchet wheel of the driver the latter will, through this pawl, communicate its motion to the second shaft, which one continues to be driven until, by the interposition of a suitable stop, the pawl is thrown sut of gear, the driven shaft being thereby disconnected now remains idle until, upon the removal of the stop, the pawl is again thrown into gear with the ratchet wheel, which thus imparts motion to the second shaft. A friction pad attached to the pawl may be used when the driver has a continuous motion in one direction. Adjustable stops are used where the

driven shaft requires to move only during a variable portion of a revolution in either direction Claim.—First, the described device for transmitting and arresting rotary or vibrating motion, consisting of a ratchet wheel and pawl, when the ratchet wheel is the driver, combined with a stop or stops, the whole operating substantially in the manner set forth.

Second, the employment of a friction pad, or its equivalent, in connexion with a ratchet wheel, pawl and stop or stops, operating substantially in the manner and for the purpose specified.

Third, combining with the device for transmitting and arresting motion adjustable stops, for the purpose of varying the motion transmitted to any desired portion of a revolution, as set forth

No. 3,218.—CHARLES A. SLACK, of Frenchtown, N. J.—Improvement in Wagon and Carriage Brakes.—Patent dated January 21, 1862.—The body of the vehicle or frame upon which it rests is placed loosely on the bolsters, so that a sliding movement will be allowed the body independently of the running gear, and the former made, by its own gravity, to actuate the brake in descending hills, the body resuming its proper position and relieving the wheels from the brake when the wheels pass on level ground.

Claim.—The employment, in combination with the body J and bolsters F G, of the inclined blocks K, substantially as and for the purpose shown and described.

No. 34,219.—E. SMITH, of Cold Spring Harbor, N. Y.—Improvement in Harvesters.—Patent dated January 21, 1862.—This invention relates to a means employed for elevating the sickle bodily in a horizontal position so as to pass over obstructions—the sickle at the same time being arranged to turn on a shaft attached to the main frame of the machine, said shaft forming the only attachment to the main frame.

A pawl and segment rack in connexion with a cord and pulley to adjust the main frame is so arranged that the sickle is held in a horizontal rigid state as the main frame is actuated

and its back part elevated.

Claim.—The pawl W actuated from the pulley F, substantially as shown, in connexion with the plate U, provided with the serrated edge f, and fitted on the shaft M, all being

arranged to operate as and for the purpose set forth.

Further, in combination with the pawl W and serrated plate U, arranged as shown, the pulley F, connected with the main frame A by the cord or chain K, cam H, and lever I, the Pulley, cam, and lever being attached to the draught pole C, and all arranged substantially as and for the purpose specified.

No. 34,220.—Moritz Stange, of New York, N. Y.—Improvement in Piano-fortes.—Patent dated January 21, 1862.—This invention consists in so applying and arranging the steady pins in the soundboard-bridge and in combination with the strings as to obviate the tendency to twist the bridge and so strain the soundboard, an evil consequent upon the usual arrangement of pins.

Claim.-The arrangement of the pins f with the pins e e and strings c c, as shown and

No. 34,221.—E. N. STEERE, of Providence, R. I.—Improvement in Spindle Bolsters.—Patent dated January 21, 1862.—This invention consists in the employment of an isolated absorbent for holding the lubricating liquid in reserve in a separate chamber, in connexion with two or more oil passages for conducting the lubricating liquid to the spindle having a hain metal bearing.

Claim.—The combination of the isolated absorbent s and the passages or conductors e c, monnexion with the ordinary metal bearing of a spindle bolster, the same being arranged

and operating substantially as described and for the purpose specified.

30. 34,222.—Cancelled.

No. 34,223.—Samuel S. White, of Philadelphia, Pa.—Improvement in the Manufacture of Antificial Teeth.—Patent dated January 21, 1862.—The mineral teeth to which this invention relates are those used with the vulcanite work. The pins used heretofore have been without heads at their outer ends.

Claim. The manufacture of mineral teeth, with pins having heads d d d, at their outer

ends, substantially as and for the purpose specified.

No. 34,224.—WILLIAM E. WORTHEM, of New York, N. Y.—Improvement in Architectural Sheet Metal.—Patent dated January 21, 1862.—This invention consists in giving a roughened surface to sheet metal used for architectural purposes, so as to prevent unbroken reflection of masses of light and give it more nearly the appearance of stone or marble.

Claim.—The new article of manufacture described, which I term architectural sheet metal.

No. 34,225.—H. B. AMES, of Brooklyn, N. Y .- Improvement in Hoop Skirts.-Patent dated January 21, 1862.—The object of this invention is to avoid the wear consequent upon the use of a metallic clasp, alone and in contact with tapes and cords used for uniting the parts.

Claim.—The employment of a piece of leather or equivalent material between the metallic

clasp and the tape or cord, for the purposes and as specified.

No. 34,226.—C. R. Alsor, of Middletown, Conn., assignor to J. W. Alsor, of New York, N. Y.—Improvement in Revolving Fire-arms.—Patent dated January 21, 1862.—This invention consists in the method of applying a cam in combination with the hammer or cock, and with the rotary, many-chambered cylinders, for the purpose of forcing the latter forward toward the barrel, so as to make a tight joint therewith at the time of firing.

Claim.—The combination of the hammer cam I with the rearward extremity of the axis

pin D, in the manner and for the purpose shown and described.

No. 34,227.—NATHAN AMES, of Saugus Centre, Mass., assignor to the GOODYEAR INDERUBBER STOPPDE COMPANY, of Boston, Mass.—Improved Bottle Stopple.—Patent dated January 21, 1862.—By the use of the core, which is made of wood, metal, or other rigid material, a saving of India-rubber is effected, and rigidity and strength gained in forcing the stopple into the neck of the bottle.

Claim.—First, as a new article of manufacture, a stopple, consisting of a band, case, or thimble R, of rubber, or any of its compounds, and a core W of wood or other material,

substantially as described and for the objects specified.

Second, constructing the core W, with an annular depression d, for the purpose of confining the rubber, and allowing the same to be of greater thickness where the most elasticity is required.

Third, constructing a stopple with a core W, rubber band, case or thimble R, and a thin coating of gutta-percha G, substantially as described and for the objects specified.

No. 34,228.—Stephen Curtis, J., assignor to Himself and Henry Yale, of New York. N. Y .- Improved Ice Pitcher .- Patent dated January 21, 1862. - The object of this invention is to protect the bottom of the vessel from injury caused by the dropping of lumps of ice upon the same.

Claim.—The construction and use in ice pitchers or other vessels of the spring bottom C. supported upon springs, so as to yield to the impact of masses of ice or the like, and preserve the true bottom of the vessel, substantially in the manner and with the advantage est

No. 34,229.—JEHU HATFIELD, assignor to PEROY & KING, of Troy, N. Y.—Improment in Machines for Making Paper Bozes.—Patent dated January 21, 1862.—The object of this invention is to obtain a machine by which strips of paper board may be very ditiously bent and pressed into angular form, for the manufacture of angular polygonal paper boxes

Claim.—The sliding bar F, with the roller G, attached in connexion with the stationary bar or bed C, spring E, slide H, and bar a, arranged substantially as and for the purpose set

forth.

forth.

No. 34,230.—HENRY HOWSON, assignor to W. F. WARBURTON, of Philadelphia, Pa-Improved Box for Matches.—Patent dated January 21, 1862.—The invention consists of 8 tilting receptacle having a projecting front by which it is made to open; it is hung on projections passing through the outer casing at each side, which form the axis on which the receptacle vibrates, and the rear part being rounded and made to preponderate, it is thus rendered self-closing.

Claim.—The receptacle B, with its projecting front and open top, when so hung to and so combined with an outer frame or casing A, of such a shape that the latter shall form a cover for the said receptacle, and when the latter is rendered by a weight or otherwise seil-

closing against the cover, substantially as set forth, for the purpose specified.

No. 34,231.—J. A. Pease, assignor to C. A. Pease, of New York, N. Y.—Improvement in Tobacco Pipes.—Patent dated January 21, 1862.—The perforations in the plug or cylinder extend from end to end, and are made to communicate with each other through small channels at the termini of every alternate pair, in such a manner as to give the smoke a course equal to their whole lengths combined, for the purpose of cooling it.

Claim.—The combination of the perforated plug or cylinder A with the piston E and case

or cylinder C, in which it moves, as described.

No. 34,332.—W. H. FURNESS, of Quincy, Ill.—Improvement in Coach and Furniture Varnish.—Patent dated January 21, 1862.—The claim explains the nature of this invention.

Claim.—The use of coal oil or kerosene and yellow wax as ingredients in the making of coach or furniture varnish out of the ordinary gums and driers used for this purpose, and as set forth.

No. 34,233.—T. K. ANDERSON, of Hornellsville, N. Y.—Improved Composition of Fuse & Son Match for Igniting Powder under Water.—Patent dated January 28, 1862.—The ingredients of which this compound consists are nitre, charcoal, sulphur, and muriate of sola prepared as specified, and charged in a quill or tube.

sola prepared as specified, and charged in a quill or tube.

Claim.—A compound consisting of the four named ingredients, in or about the same proportions specified, prepared and used in the manner as and for the purposes set forth.

No. 34.234.—FREDERICK ANDRIESSEN, of Alleghany City, Pa.—Improved Car Truck Regulator.—Patent dated January 23, 1862.—This invention consists in placing three truck frames, the centre one being exactly equidistant from the two outer ones, under every wagon-chest or locamotive, (connected with a tender.) The middle truck is self-adjusting sidewise.

Claim.—The application of this self-adjusting regulator with the four leading poles, friction rollers, &c., (see letters A, B B, C C C C, D D D D D D D, and E E E E of the drawings,) to B R, locomotives and cars.

No. 34.235.—C. H. BRADLEY, of Westchester, Pa.—Improvement in the Muzzle of Fire-arms for Cuting of Cartridges.—Patent dated January 28, 1862.—This invention has for its object the cutting, tearing, or breaking the cartridge at the top or muzzle of the gun barrel. Claim.—Providing a portion or the whole of the end or muzzle of the gun barrel with test, or otherwise rendering the same rough, as and for the purpose set forth and described.

No. 34,236.—O. N. BRAINERD, of Marion, Iowa.—Improved Evaporating Pans for Saccharine Liquids.—Patent dated January 25, 1862.—The heat passing through the flue between the two pans is designed to heat simultaneously the contents of the upper and lower pans, and two strainers in combination with these pans are so arranged that the juice in passing from one pan to the next succeeding one is strained and freed from curdles or other impuring the same time gradually boiled down.

Claim.—First, the arrangement of the pans A and B in combination with the flue D at the lottom of the former and at the top of the latter, constructed and operating in the manner and for the purpose shown and described.

Second, the arrangement of the strainers G H in combination with the pans A B C, constructed and operating as and for the purpose specified.

No. 34,237.—JOHN S. BROOKS, of Rochester, N. Y.—Improvement in Sad-Iron Heaters.—Patent dated January 28, 1862.—The central apartment has lids which fall each side, while the lids at each end admit of being raised only so far as to fall by their own weight when the iron is removed.

Claim.—An improved sad-iron heater, consisting of the pan A divided into separate compartments for each iron, with hinged falling lids or covers c d so arranged that the removal of an iron from one chamber will cause the lid or lids to fall over the adjoining one, substantially in the manner and for the purposes described.

No. 34,238.—James Burrell, of Central City, Colorado Territory.—Improved Amalgamator and Ore Crusher.—Patent dated January 28, 1862.—This invention is designed for separating gold from quartz and to receive the pulp as it is discharged from the ordinary samp batteries or stamping mills. The pulp is acted upon in the grooves by the balls, and the cylinder, with an amalgamated inner surface, serves to receive the contents of the pulverzer and separate any particles of gold that may have escaped amalgamation in passing through the pulverzer.

through the pulverizer. Uaim.—First, a rotating or reciprocating pulverizer and amalgamator B, when constructed with a series of circumferential grooves d, each of which is provided with a ball D, arranged a described

Second, in connexion with the pulverizer and amalgamator B, constructed as described, the cylinder H, provided with an amalgamated inner surface, and arranged to operate conjunty with B, substantially as and for the purpose set forth.

No. 34,239.—JAS. M. CLARK, of Lancaster, Pa.—Improvement in Apparatus for Feeding Muls.—Patent dated January 28, 1862.—The cup, which may be adjusted from one side to the other so as to run true, revolves with the stone, and as it becomes filled with grain, the latter, by centrifugal action, is thrown off against the stationary shield, from which it drops 1810 the eye of the stone to be ground; choking of the tube is thus avoided, and regularity of feed attained.

Claim.—First, the employment of the revolving cup F, when adjustable, substantially as and for the purpose specified.

Second, the arrangement of the cup F, the strap a, and rim E, secured and connected by means of clips c c, substantially as represented.

Third, the employment of the stationary shield G, used and for the purpose specified Ogle

No. 34,240.—James W. Clark, of Springfield, Mass.—Improvement in Tools for Making Screws.—Patent dated January 28, 1862.—This tool may be used in an ordinary lathe, and consists in the arrangement of three cutters, fitted into a common stock, provided with two guide openings, or rests, one to fit he head and the other the shank of the screw, is such a manner that by the action of the first tool the wire is turned down to the size of the head, by the second to the size of the shank, and by the third the point is rounded and the screw prepared to receive the thread.

Claim.—The arrangement of the cutters B C F, opening c, segmental rim d, and movable

guide-plate G, in combination with the stock A, as and for the purpose described.

No. 34,241.—C. A. CODDING, of Augusta, Mich.—Improvement in Cheese Presses.—Patent dated January 28, 1862.—The bottom of the press being movable admits of being turned and adjusted to prevent clogging of its perforations, and also admits of easy removal of the cheese after it is pressed.

Claim.—The employment of the adjustable bottom C, constructed as set forth, in combination with the hoop or cylinder A, and perforated plunger B, arranged and operating as and

for the purpose specified.

No. 34,242.—James M. Connel, of Newark, and John S. Hall, of Columbus, Ohio.—Improvement in Shells for Rifled Ordnance.—Patent dated January 28, 1862.—When the projectile is in flight the magazine abuts against the partition at the lower part of the forward chamber of the projectile, but as soon as motion ceases the nipple end of the magazine abuts suddenly against the screw plug at the cone end of the projectile, causing an explosion of the cap and of the powder in the magazine; the contents of the two chambers then become ignited, and the projectile explodes.

Claim.—First, the explosive projectile made of two hollow parts A A' B B', which are fitted together so that a space C exists between their facing ends a b and the part A' having circumferentially segmental cavities D, and the part B B' having angular cavities E bevelled projections F, and a bevelled, continuous circumferential edge G, and the whoke being encircled and held together by a lead packing ring H, in the manner and for the pur-

poses described.

Second, constructing the interior of one portion of the projectile with a front and rear rest or shoulder c d, and arranging in or against the same an open-ended hollow tube K, for the purpose of separating the contents of the chamber J from the igniting magazine K', substantially as and for the purposes set forth.

Third, in combination with the shoulders cd and tube K, we claim providing a central opening f in the end a of the part A A', and a similar hole g in the end b of part B B', and arranging and igniting magazine K' K2, within the hollow tube K, and in the openings f.

in the manner and for the purpose described.

Fourth, the combination of a sliding, igniting magazine with the hollow explosive projection.

tile, substantially as and for the purposes described.

No. 34,243.—RANSOM COOK, of Saratoga Springs, N. Y.—Improved Lunch Box.—Patest dated January 28, 1862.—This invention consists of an arrangement of dishes, cups, &c. arranged within a case for the use of travellers, laborers from home, and others.

Claim.—A lunch case, composed of the dishes E E E, the vessels F F, the drinking cuts G G, the inner cover C, its rib D, with the case A, and the cover B, the whole constructed

and arranged as set forth for the purpose specified.

No. 34,244.—SIMEON COON, of Ithaca, N. Y.—Improvement in Window-Sash and Sating Glass therein.—Patent dated January 28, 1862.—The upright or the horizontal ban of the window-sash or munnions are made stationary, and grooved to fit the edges of the pages of glass; the other bars are also grooved, but made detachable, the end being made fast in the place by a notch or dowel pin. A slot is cut in one side or top of the window-sash, parallel with the detachable munnions, for the reception of a pane of glass, the munnion is then placed upon it and the glass secured.

Claim.—The peculiar construction of window-sash with loose munnions adjusted as described, and slots cut through the frame for the purpose of admitting glass; all is

combination with the method of securing the glass, as set forth in my specification.

No. 34,245.—JOSEPH H. DUFFIELD, of Glassboro', N. J.—Improvement in Cases for Railroad Tickets.—Patent dated January 28, 1862.—The object of this device is to cause a single ticket to protrude from a pack by means of a sliding spring stem, so arranged that by removing the pressure of the finger or thumb, applied to push the said stem inward, the reaction of the same shall bring forward the single ticket required.

Claim.—The application to a ticket case, constructed in any suitable form, of the sliding spring stem C, constructed and arranged to operate in combination therewith and the ticket

contained, in the manner described and set forth, for the purpose specified.



No. 34,246.—O. L. EDWARDS and NELSON GABEL, of Gratis, Ohio.—Improvement in Fraces.—Patent dated January 28, 1862.—The claim and engraving explain the nature and object of this invention.

Claim.—In the construction of portable fences, the combination and arranging of keys

b b , d d, post C and E, and rails A, substantially as set forth.

No. 34,247.—John Ellis, of Detroit, Mich.—Improvement in Carriage Gates.—Patent dated January 23, 1862.—By pulling the cord on either side the gate is raised so that the sich escapes from its catch; the gate then swings open by its own weight, away from the top that is pulled. By pulling the other cord the gate swings back and closes.

Claim.—The extension H, cap K, latch I, and connecting link a, in combination with the

rges M M', when these several parts are constructed, arranged, and operated as and for the

parposes set forth.

No. 34,248.—George F. Evans, of Norway, Me.—Improvement in Plane Stocks.— Patent dated January 28, 1862.—The plane is so constructed that its bearing surface or face may be readily adjusted to conform to circular surfaces of different degrees of curvature, whereby such curved parts may be easily and smoothly planed.

Claim.—Improved plane, having its body A, its bearing plate E, its screws G G', traversing nots H H', and connecting rods I I, constructed and arranged in relation to each other, and so as to operate together, as set forth.

No 31,249.—Samuel W. Francis, of New York, N. Y.—Improved Pocket Match-Box.—Patent dated January 28, 1862.—The invention consists in providing a flat box, open at one and with a drawer held in by a spring, so that when the former is drawn in by the spring, size it has been drawn half-way out, one match is made to project from the box, and, being paied, is lighted by inside friction.

Claim.—The combination and arrangement of the box A B, the drawer C, the springs F

and I, and stopper M, substantially as and for the purpose specified.

No. 34,250.—Thomas J. Griffin, of Brooklyn, N. Y.—Improved Combined Camp Cot and Chest.—Patent dated January 28, 1862.—The object of this invention is to combine a cot and chest in such a manner that the same can either be used as a cot or a chest, to contain the mattress and bed clothes, and also books and other articles required by officers and irrates in camp.

Claim.—The described combination of camp cot and chest, consisting of the three sections "mattress frame D D' E, hinged together so as to have the two former fold up compactly pen the latter when not in use as a couch, the latter forming a tight cover for the chest A, at a support or bedstead for the couch, the whole arranged to operate in the manner and for

Le purpose set forth.

No. 34, 251.—HIRAM GRANT, of Chicago, Ill.—Improved Roofing Composition for Rail-red Cers, &c.—Patent dated January 28, 1862.—This composition consists of coal tar write pulverized resin, India-rubber cut in spirits of turpentine, shellac varnish, asphaltum traish, brown japan, boiled linseed oil, white lead, mineral paint, yellow ochre, and sugar : kad, prepared as specified.

Claim.—The above-named composition matter or ingredients, when prepared in the propor-

and in the manner specified, and applied as stated.

No. 34, 352.—Florian Grosjean, of New York, N. Y.—Improvement in Shect Metal 7 vs.—Patent dated January 28, 1862.—The object of this invention is to impart strength firmness to the narrow or weak part of the handle, and to improve the shape and finish < i≟e spoom.

Claim.—Corrugating the handle of spoons or forks made of single pieces of sheet metal, "the central corrugation and outer bead combined, substantially as and for the purpose

5. 34, 255.—PETER W. HARDWICK, of Williamsburg, Ind.—Improved Apparatus for straing and Detaching Horses to and from Carriages.—Patent dated January 23, 1862. the arrention consists in connecting two pairs of clamps with plates and springs, so that a may be instantly detached from the carriage. The end of the straps extend to the set of the carriage, and the string is removed from the clamps by pulling the strap.

The clamps as constructed, in connexion with the plates or their equivalents, in the clamps are constructed, in connexion with the plates or their equivalents.

: 3.astion with the spring, the whole being constructed, arranged, and operated substan-

-J as above set forth.

No. 34, 254.—JOHN J. HAYDEN, of Indianapolis, Ind.—Improvement in Metallic Roofing.—
i-en dated January 28, 1862.—This roofing is used without solder, and its construction is roed to overcome capillary attraction, also expansion and contraction from heat and and to attain security against under or upper currents of air during storms.

Claim.—First, the combination in diamond sheet metal roofing, of the peculiar character described, of the upward and downward bent or curved points S S', substantially in the

manner and for the purposes described.

Second, the combination of the diamond sheets, eave, side, and comb, or saddle triangular pieces, and cleats, with the roof of a house, the said parts being constructed and applied in the manner and for the purposes described.

No. 34, 255.—T. H. and HENRY JAMES, of Stockport, N. Y.—Improvement in Powe Looms.—Patent dated January 28, 1862.—The invention consists in the mode of combining the whip roll with the weighted levers employed to produce friction upon the yarn beam, whereby the letting off of the yarn is controlled by the tension of the warp, and the said tension kern nearly uniform, whatever may be the quantity of yarn on the beam. The weights are adjusted according to the tension desired in weaving, so that they will just balance the tension of the warp, and hold back the whip roll as far as permitted by the friction straps.

Claim.—The arrangement of the elbow levers I I, rods H H, and the weighted levers E with the whip roll G, straps D D, and yarn beam C, in the manner shown and described.

No. 34, 256.—ALBERT KEITH, of Lisbon, Ill.—Improvement in Grading and Excarding Machines.—Patent dated January 28, 1862.—The object of this invention is to render the cutter or share adjustable in such a manner as to cause it to work in a perfectly horizontal position in a transverse direction, however much inclined may be the surface of the ground over which the machine is passing; also so constructing the endless conveying apron that the earth will be readily discharged from it, and in so arranging the cutter or share beam that the cutter may be made to penetrate the earth at a greater or less distance, as may be required the cutter being rendered capable of adjustment.

Claim.—First, constructing the endless apron E' of a series of metal plates H', attached to rods f, the ends of which are connected to chains g g, and all arranged, as shown, to admit of a certain degree of tilting of the plates H' as they pass around the pulley F', as and for

the purposes set forth.

Second, attaching the beam A to the oblique bars O R by means of joints or hinges P Q in connexion with adjustable slide M', fitted on the perforated bar L', provided with a catch or lever N', and attached to the upright notched bar I, all being arranged, as shown, to admit of the adjustment of the beam A and cutter or share B in a transverse direction, as set forth.

Third, supporting the front part of the beam A by means of a caster wheel C, connected with an adjustable lever E', in combination with the wheel J, which supports the back part of the beam A, and is connected with the adjustable lever K, all arranged as and for the purpose specified.

No. 34, 257.—E. M. Luckett, of Philadelphia, Pa.—Improved Mode of Cleaning Surfrom Railroad Tracks.—Patent dated January 28, 1862.—The object of this invention is no render the snow and ice on the rails easy of removal by means of the waste steam of the locomotive.

Claim.—The addition of a chamber over the dome of the steam boiler of a locomotive engine, and the introduction of a pipe to convey the waste steam to the rail, (as set forthin the drawing,) which, with the aid of an improved snow shovel, will cleanse the rail from snow, frost, and dirt, thus improving the speed of the engine and turning the steam was profitable account.

No. 34, 258.—EDWARD LYNCH, of Buffalo, N. Y.—Improvement in Attaching Bels in Tents.—Patent dated January 28, 1862.—The beds are secured to cross-bars on one side and laced together on the other. The ends of the bars are fastened into staples secured to a adjustable slide upon the tent poles.

Claim.—First, the arrangement of the beds E E, the bars D, strap J, and the cords H L

as and for the purpose specified.

Second, the employments of the slides d d, with loops or staples attached, used in connexion with the bars D D, in the manner and for the purpose specified.

No. 34, 259.—JACOB MARTIN, of Mound City, Ill.—Improvement in Relieving Slide l'alres of Pressure.—Patent dated January 28, 1862.—The slide valve is connected to the piston which is fitted to an open cylinder in the back of the valve chest, and upon which the pressure of the steam acts in opposition to its pressure on the back of the valve. The roller runs freely upon the bar, and so relieves the valve of pressure to the extent due to the pressure upon the piston.

Claim.—Combining the slide valve with the piston D by means of a roller G attached to the valve, and a bar H attached to the said piston, substantially as and for the purpos

specified.

No. 34,260.—Thomas Miles, of Philadelphia, Pa.—Improvement in Slinging Knapsacis—Patent dated January 28, 1862.—This device is designed to economize cost and weight simplify the means of sustaining the knapsack upon the back, and dispense with all breast straps.

Claim.—Sustaining a knapsack upon the back and shoulders of the wearer, by means of a single strap and a single fastening, substantially as described.

No. 34,261.—J. T. MINARD, of Danbury, N. H.—Improvement in Seats for Wagons and Seight.—Patent dated January 28, 1862.—When the vehicle is used with two seats, the front seat is fastened to the loops in front; the back seat is then elevated until it is on a line with the cross piece; the seat ends or arms are then raised and connected with the back by means of an iron hook or catch; the movable seat is then lowered to a level with the front seat, when it rests on two projections on the seat ends.

Claim.—The peculiar construction of the adjustable seat B in combination with the movable seat A to a wagon or sleigh body, so as to form a single or double-seated wagon or

sleigh, arranged as and for the purpose specified.

No. 3422.—WILLIAM MORRISSON, of Chadd's Ford, Pa.—Improvement in combined Iron and Sted Ploughs.—Patent dated January 28, 1862.—Plate iron and steel are so welded together that the face of the mould-board shall be of steel, and the back of it of iron—the object being to resist the cutting by gritty matter, while the iron will protect the highly-tempered steel from being broken. The adjustable steel cutter is so arranged as to be moved forward as it wears away, thus avoiding the necessity of a coulter.

Claim.—First, a mould-board for a plough composed of a steel face and an iron back, made

and mited to the plough substantially as described.

second in combination with a permanent land side and a bar share, as described, a steel cutter that is united to the outside of such land side, and by a groove to the bar share, in such manner as to be adjusted thereon, as it wears away, as set forth and described.

No. 34,263.—J. B. PRESCOTT, of Waterford, N. Y.—Improvement in Breech-loading Conseq.—Patent dated January 28, 1862.—This invention is represented as applied to a batter of two pieces. That portion of the cannon next to the breech is made square, and this square part has shoulders which project beyond each side of the barrel. Around the said shoulders are fastened bands which hold the barrels and breech piece together. The gun is hing on trunnions, and on the threads of the bands are nuts, on each of which are check nuts to prevent the others from working loose by the action of the gun.

Claim.—The arrangement of the adjustable bands and bars with the breech piece and

shoulders C in the manner shown and described.

No. 34,264.—T. J. PRICE, of Industry, Ill.—Improvement in construction of Evaporating Pens for Saccharine and other Juices.—Patent dated January 23, 1862.—The partitions extending across the pan, with apertures only at their lower outer edges, serve to prevent the passage of the scum from one division to another. The canvas luting is designed to prevent salage when the edges of the plates overlap in a horizontal position. The arrangement of the furnace and flues is designed to impart a high degree of heat to the forward divisions of the pan and act with less intensity on the divisions containing the sirup.

Claim.—First, an evaporator for saccharine or other juices, having partitions J extending from side to side with openings at alternate ends, and secured by bolts or rivets between

upturned flanges a of the bottom plates, all as before explained.

Second, the combination of the vertical flanges a, horizontal lapping edges a', and painted canvas luting m, all arranged and employed in the manner and for the purpose explained.

Third, the combined arrangement of the furnace A, contracted throat C and guards R, applied to the rear divisions of the pan, all as shown and described, and for the purpose specified.

No. 34,265.—D. B. RAY, of Circleville, Ohio.—Improved Type-setting Machine.—Patent dated January 28, 1862.—The tubes are so constructed that the type, as they are being distributed by hand into hoppers or funnels, shall be made to arrange themselves in passing through the tubes with the notched edges all turned the same way. The arm is twisted for the purpose of reversing the position of the type as it passes down. Catches are placed at the bottom of each tube to prevent the type from sliding out, which tubes are operated when becssary by a key. The composing stick is so constructed with a spring and slide attached as to bring the type into a perpendicular position at whatever angle they may be dropped into the stick.

Chim.—First, constructing tubes C C, or their equivalents, with two branches or arms M and M', and a regulator g and its mechanism, substantially in the manner and for the purpose

Second, the spirally-curved or twisted tube M in combination with the main tube C, substantially in the manner and for the purpose set forth.

Third, arranging the tubes or their equivalents, like the radii of a circle.

Fourth, the catch t, for feeding out the type. Fifth, the spring f, slide x, and rockshaft v, combined with the composing stick S, substantial, in the manner and for the purpose set forth.

No. 34,266.—T. C. RICE, of Cambridgeport, Mass.—Improvement in Breech-loading Ord-nance.—Patent dated January 28, 1862.—The screw cap forms a part of the breech of the gun and operates to close the breech in conjunction with the slide and breech pin combined, which, after a vertical movement, occasioned by its own gravity, is conveyed horizontally forward by the action of the screw.

Claim. The combination of the slide B with the screw cap C and barrel A, substantially

in the manner shown and described.

No. 34,267.—M. B. RIGGS, of New York, N. Y.—Improvement in Guard Fingers for Harvesters.—Patent dated January 28, 1862.—This invention relates to the construction of the guard finger and the mode of attaching a stationary steel cutter in each finger, which, in conjunction with the movable cutters, operates upon the principle of shear blades.

Claim.—The bar E, made either entire or in sections, and provided with the lngs F, as described, when arranged in combination with the fingers and counter cutters in the manner

and for the purpose specified.

No. 34,268.—J. P. Rollins, of Cedar Rapids, Iowa.—Improvement in Shells for Rifled Ordnance.—Patent dated January 28, 1862.—When the projectile strikes an object, the plunger is first arrested, and the continued movement of the projectile brings the cap in contact with the inner end of the plunger, and produces the explosion.

Claim.—The combination of a sliding spring rod F projecting in front of the shell withed discharge nipple c, formed upon a screw D, inserted from the rear, all substantially as and

for the purpose set forth.

No. 34,269 .- W. J. SAGE, of Steubenville, Ohio .- Improvement in Mode of Propelling Cars.—Patent dated January 28, 1862.—The object of this invention is to apply the proper ling power to railroad cars in such a manner as to avoid the friction now produced by the weight of the cars on the axles of the wheels. To this end gears or pinions are attached to the axles of the wheels, which gears or pinions are fitted between toothed rims or drums to which the power is applied.

Claim.—The two drums or cylinders D F, provided with the toothed rims E G, with the

pinions C of the axles A placed between them, as and for the purpose set forth.

No. 34,270.—WILLIAM ROMANS, of Columbus, Ohio.—Improvement in Locomotive Corn.

Patent dated January 28, 1862.—The truck sustaining the locomotive, &c., is made free to move round in the path of a horizontal circle in turning curves of railroad tracks. The water-tank, locomotive truck frame, engines, cylinders and valves of the locomotive are so arranged that the eccentrics, link motions and valve rods are located between the truck frame and inner faces of the driving wheels to attain the necessary compactness. The frost bolster and fender are made removable, so that the locomotive truck with all its attachments can at any moment be run out from under the end of the car. The rear truck is made to be moved to the centre of the length of the car when it is necessary to turn it completely around or pass over sharp curves.

Claim.—First, the manner, substantially as described, of adapting a locomotive and a compared to the compared for direct connexion with one another in such a manner that all the connexions of the locometive are free to turn independently of the car, and that the weight of the front end of the car rests centrally, or nearly centrally, on the locomotive truck, and thus is made available for steadying the locomotive on the track while the centre of motion of the locomotive is traceferred from the rear end to the centre of the truck, all as and for the purpose set forth.

Second, making the front bolster G, and also the fender F, removable, substantially

and for the purpose set forth.

Third, in combination with the construction and use of the devices, as set forth in the first claim, in the manner substantially as described, of arranging the valve rods, link motions and eccentrics, between the inner faces of the locomotive driving wheels and the onter sides of the locomotive truck frame, for the purpose set forth.

Fourth, so constructing and arranging the car and the rear truck, and connecting the same. that the truck, while the car is resting upon it, may be moved a greater or less distance to ward the locomotive, and when thus moved shall be free to turn curves, substantially as and

for the purpose set forth.

Fifth, the combination of the flanged plate V i, of the rear truck and the tubular projections à of the rear bolster J of the car, substantially as and for the purpose described.

No. 34,271.—J. F. Scholfield, of Lawrence, Mass.—Improvement in Shuttles.—Patent dated January 28, 1862.—As the yearn leaves the spindle of the shuttle it comes in counse. with the right lip of a concave shell, and is guided by a wedg-eshaped projection towards the inner surface of the shell, from which it passes to the left lip of the shell, producing thereby an angle in the thread, by means of which all kinks are removed from the year. before passing into the cloth through the tubes.

Claim.—The application of this device, made from either metal or any other suitable

material, to a weaver's shuttle for preventing kinks in the west while passing from the shuttle to the cloth, substantially as set forth. Digitized by GOOS

No. 34,272.—JOSEPH SHORT, of Boston, Mass.—Improvement in Knapsacks.—Patent dated January 28, 1862.—This invention is designed to supply means whereby the wearriness consequent upon the strain of one set of muscles is relieved; also to obviate the difficulty caused by the knapsack slipping down upon the small of the back, which brings the greatest weight upon the weakest part of the body.

Claim.—First, arranging, disposing, and attaching straps to and upon a knapsack, so that is top may be allowed to fall away from contact with the shoulders and spine of the wearer, for the purpose of ventilating the back and shoulder of the wearer, and at the same time cause a different set of muscles to be brought into action, in the manner substantially as described.

Second, arranging and adapting straps to support and confine a knapsack to the shoulders and back of the wearer, so that it can be raised and lowered in a vertical line, or nearly in a vertical line, upon the back and shoulders of the wearer, and be held in the desired fixed position, on such line, at the will of the operator, in the manner substantially as described.

Third, a combined neck and shoulder strap, having connexions with a knapsack by intermediate straps, at points which are at or near the top and base of the knapsack, for the pur-

Fourth, the combination of the removable curved side walls, with the adjusting straps, whereby the body of the knapsack is adapted to the back and shoulders of the wearer in its different positions, as and for the purpose described.

No. 34,273.—A. H. SILVESTER, of Boston, Mass.—Improvement in the Manufacture of Boxes.—Patent dated January 28, 1862.—The advantages claimed in this article are cheapness of manufacture, great durability, capability of adjustment to feet of different sizes, and facility of putting on and taking off.

Claim.—The bootee, constructed as described, with the adjustable fastenings, and whereby

all the advantages are combined, as an improved new article of manufacture, for the purposes

specified.

No. 34,274.—L. E. SMITH, of New Haven, Conn.—Improvement in Railroad Station Indicators.—Patent dated January 28, 1862.—Within a suitable box inside the car are enclosed two rollers upon which is rolled a band of cloth having the names of the stations, where the train stops, printed upon it. The cloth being wound from one roller to the other, displays the name of the station required; springs against flanges on the roller prevent their being tuned by the motion of the car.

Claim.—The combination of the box, rollers, curtain and springs, substantially as

described and for the purpose set forth.

No. 34,275 .- MATTHEW SMITH, of Pittsburg, Pa .- Improvement in Steam Boilers. Patent dated January 28, 1862.—By this arrangement it is claimed that only one-third of the water generally used in cylinder boilers is necessary, and this being kept in contact with the hottest portion of the shell, is quickly heated and steam more rapidly generated. Supporting the receiver on trunnions admits of its being rotated so as to clean out the accumulation of mud, &c. The blow-off valve or cock is for the purpose of blowing off water which may accumulate in the receiver by condensation or otherwise.

Claim.—Combining with the interior of a cylindrical boiler a steam receiver or receivers, wholly or partially immersed in the water, and permanently held in such proximity to the bottom of the boiler as to produce a thin sheet of water between the receiver and the boiler,

for the purpose as set forth.

Second, the combination of a steam receiver, by means of trunnions, with the interior of

cylindrical boiler, in the manner and for the purpose as set forth.

Third, the combination of a blow-off valve or cock with a steam receiver, in a cylindrical boiler, passing through the boiler and communicating only with the interior of the receiver, for the purpose as stated.

No. 34,276.—Daniel W. Swift, of West Falmouth, Mass.—Improved Clothes-wringing Machine.—Patent dated January 28, 1862.—The object of this invention is to admit of the redy adjustment of the rollers to the varying thicknesses of the clothes passing between them; the guide pins serve to keep the clothes in proper position.

Claim.—First, the springs E E constructed of steel of the form shown, when said springs

are applied to the cylinder A of the frame of the device to form a support for the lower roller P, and at the same time admit of the upper roller G being applied to them so that the springs

will press said roller G on the roller F, as set forth.

Second, The guide pins I I when attached to the bar H, fitted on the springs E E and placed in relation with the rollers F G, as and for the purpose specified.

No. 34,277.—Andrew Turnbull, of West Meriden, Conn.—Improvement in Lamps.—Patent dated January 28, 1862.—The invention consists in a method of snuffing the coal from the wick and extinguishing the light when desirable by means of a piece of metal plate stacted to and operated by a crank.

Claim.—Combining with the tube f a spindle crank j snuffer or extinguisher j', substantially as and for the purpose described.

No. 34,278.—JOHN S. WHITEHILL, of Westchester, Pa.—Improvement in Running Gear of Wagons.—Patent dated January 28, 1862.—The front and rear hounds are made alike so as to be connected by an adjustable coupling pole and bolt to admit of attaching the horses to either end of the wagon.

Claim.—The adjustable coupling pole A held by the king bolt D passing through the rear end of hounds and circular plate E, all in combination as described, and for the purposes

set forth.

No. 34,279.—WILLIAM WICKEN, of Muscoda, Wis.—Improvement in Grain Separators.—Patent dated January 28, 1862.—The cockle screen has a lateral movement in common with the shoe and a reciprocating sliding movement, the object being to prevent choking or clog-ging of the screen. The chess screen has a reciprocating sliding movement only, and separates the chess and shrunken grain from the sound grain.

Claim.—Operating the screens D'G, and giving them a reciprocating sliding movement through the medium of the bell crank F fitted in the shoe C, and connected to the screens D' G by means of the hook E and rod K, and also to a stationary rod j, the screens being oper-

ated by the movement of the shoe C, all arranged in the manner described.

No. 34,280.—G. K. DEARBORN, of Abington, Mass., assignor to S. F. TAPLEY, Chelsea, Mass.—Improvement in Heaters for Passenger Cars.—Patent dated January 28, 1862.—The furnace is placed under the floor of the car, an outer casing with a bottom plate forms an air chamber, air passes through openings in the bottom plate, and being heated by the furnace passes into the car through a register. An auxiliary pipe or flue communicates from the draught pipe to the upper part of the furnace for the purpose of carrying off any gas which may escape.

-The furnace for railway and street cars, constructed substantially as described, Claim. with the flues K and auxiliary flues, said furnace being arranged under the floor of the car,

and operating substantially as set forth.

No. 34,281.—Josee Johnson, of New York, N. Y., assignor to Himself and John Ward, Jr., Brooklyn, N. Y.—Improved Clothes Wringer.—Patent dated January 28, 1862.—The advantages claimed for this device are compactness, simplicity, and cheapness, with lightness and strength, owing to the thinness allowable in the metal parts and absence of fastenings usually required.

Claim.—First, the described metallic frame for a wringing machine, constructed in two parts, A B, the dividing line passing through the axis of the rollers C D, and the sides being so formed as to partially enclose the said rollers, and serve as guides for the clothes, substan-

tially as and for the purposes described.

Second, the recess G in each end of each of the parts A and B, so made that when the parts A and B are placed together they formed an enclosed space for the springs H, substatially as set forth.

No. 34,282.—James A. Hamer, of Chester, Pa., assignor to W. L. Paxon, of Philadelphia, Pa.—Improvement in Brick Moulds.—Patent dated January 28, 1862.—The cross pieces are provided with angular projections on their edges, working in grooves or recesses in the side pieces; the end cross pieces are forced towards each other by means of cranks and shaft, causing the sides to be drawn closer together, and thus compactly holding all the parts to Vibrating valves are hinged to the sides to enable the grooves to be easily washed or cleaned out.

Claim.—First, the combination of the side pieces A A with their angular grooves, with the cross pieces C D, double crank shafts E E, and lifting pieces ffff, constructed and operated

in relation to each other substantially as described.

Second, the combination of the vibrating valves h with the sides A A and cross pieces, substantially as and for the purposes set forth.

No. 34,283.—Wm. Peters, assignor to Himself and R. B. Porter, of Baltimore, Md.-Improvement in Packing for Steam and other Engines.—Patent dated January 23, 1862.—
The packing is prepared by placing layers of asbestos and layers of flax or wool or other material alternately in a tub of water, through the bottom of which tubes conveying steam enter, and thus the mass is made to assume the condition of pulp; the pulp is then laid upon an even surface and compressed into plates of the required thickness.

Claim.—The packing described for steam and other joints, composed of asbestos and vegetable or animal fibre or material.

No. 34,284.—HENRY T. ROMERTZE, of Philadelphia, Pa.—Improvement in Automatic Car Coupling .- Patent dated January 28, 1862.-The coupling is operated by pulling the lever towards the rear end of the box, which forces open the two jaws, when the projections entering the jaw slots expel the parallel bar-head ends from the slots, thus assisting the bar to issue freely from the box. By reversing the lever the jaws close and are held in position by a spring and the upper jaw of the lever.

Claim.—The jaws b b, the sockets c c, the slots b b, in combination with the releasing lever

d, spring g, case or box a, with the projections A, substantially as shown and described.

No. 34,225.—Daniel M. Mefford, of Cincinnati, Ohio.—Improvement in Projectiles for Fire-srms.—Patent dated January 28, 1862.—This projectile consists of a wooden shaft and a metallic head of smaller diameter. It is designed to obviate the necessity of rifling the

gun, as affording great range and precision to a smooth-bore musket.

Claim.—A projectile having a metallic head of smaller diameter than the bore of the piece with which it is intended to be used, and a shaft of wood or other light material, the greatest diameter of which fits the bore, or nearly so, when the parts are so formed and combined that the greatest diameter of the shot is in the rear of the centre of the figure, and the centre of the figure is in the rear of the centre of gravity, substantially as shown and explained.

No. 34,246.—STEPHEN F. AMBLER, of Brooklyn, N. Y.—Improved Amalgamator.— Patent dated February 4, 1862.—The ore is fed into the pan, into which mercury has been placed; motion is then given to the pan, by means of which, and a current of water, the sand is separated from the gold or silver and carried to the discharge opening and trough. An agitating board, provided with copper or iron pins, is used to prevent the sand from caking and carrying off the finer particles of gold and mercury. The sand and water are discharged from the side of the pan where the least agitation occurs, in order to retain the finer particles of gold within the pan.

Claim.—First, giving to the pan D the shaking and vibratory motions for the purpose described.

Second, the combination of the agitating board H, constructed as shown, with the pan D, for the purpose specified.

Third, placing the discharge openings O, upon the side of the pan D, for the purpose set

No. 34,287.—EDWARD D. BAKER, of Claremont, N. H.—Improvement in the Construction

of Ordersce.—Patent dated February 4, 1862.—Near the rear end of the gun are two flanges, either wrought, shrunk, or slipped on against shoulders. From one to the other of these flanges are passed a series of strengthening rods, strained up by nuts and screws. The gun, between the flanges, is wrapped with wire in one or more layers, the ends being securely fastened in the flanges; the object being to strengthen the gun at and near the point of dis-

Claim.—First, the flanges projecting from the body of the gun, near the breech, in combination with the external screw or straining rods, substantially as and for the purpose de-

Second, in combination with the flanges, the wire wrappings, said flanges furnishing both a support for and the means of securing the ends of the wires, substantially as described.

No. 34,288. - F. H. BARTHOLOMEW, of New York, N. Y.-Improvement in Valve Regulators.—Patent dated February 4, 1862.—The object of this invention is to determine the stopping of the discharge of water under pressure into an open vessel from which water may be removed, so as to prevent waste. Also, to facilitate the adjustment of the combined mechanism between the open vessel and the valve or cock, for the purpose of regulating the quantity with which the open vessel is to be filled before the discharge is to be stopped.

Claim.—First, the combination of an open vessel from which water may be removed, with a valve that controls the discharge of the water under pressure into said open vessel, by mechanism, substantially as described, so that the weight of water in the open vessel

determines the closing of the valve.

Second, the combination of the handle by which the valve is opened with the mechanism described, with the open vessel, and with the valve, in such manner that the said handle is made available both to open the valve and to adjust the said mechanism, substantially as described.

No. 34,289.—Thomas L. Birch and John C. Noble, of Washington, Pa.—Improve-nation Car Couplings.—Patent dated February 4, 1862.—This invention consists of an automatic coupler, adapted to secure the cars when the latter are run together, without neces-

sitaing an accurate adjustment of the parts, or setting them at specific relative heights. Claim.—The combination of the similarly-formed double-hooked bars C C' e e', springs F, and levers G', when the parts are so constructed and arranged as to adapt the hooks to lock together whichever is uppermost, substantially as explained.

No. 34,290.—S. A. CLEMENS, of Rockford, Ill.—Improvement in Construction of Walls of Buildings.—Patent dated February 4, 1862.—The walls having two or more parallel chambered spaces within it, admit of one of the chambers being filled with mortar concrete, or other material; the other space may be left vacant for the purpose of combining solidity and the non-conducting advantages of the hollow space.

Claim.—The method of constructing the walls of buildings, and other structures, of lath

or any narrow strips of wood put up in two or more parallel tiers or rows, with cross-ties of the same secured between the lath by mortar or nails, to be finished by plastering, when combined either with the vacant space or spaces between the tiers or rows of lath, or with a filling of mortar, or other material, in the said space or spaces, whether the entire skeleton wall be constructed of the lath-work, or it be combined with parts of a frame, substantially as described and for the purposes specified.

No. 34,291.—EDWARD CONROY, of Boston, Mass.—Improvement in Machines for Cutting Corks.—Patent dated February 4, 1862.—The blocks of corks are cut into slices or sticks of the desired thickness, and after being cut are caused to drop freely from under the knite by the action of the vibrating gauge; the automatic tilting table, with the cutters, are for the

purpose of cutting sticks into suitable length for the corks.

Claim.—First, the arrangement of the vibrating gauge-plate H, and stationary rest G, in combination with the reciprocating knife b, constructed and operating substantially in the

manner and for the purpose shown and described.

Second, the arrangement of the tilting table G, in combination with one or more rotary cutters L, constructed and operating substantially as and for the purpose set forth.

No. 34,292.—Samuel and L. A. Davis, of Providence, R. I.—Improved Washing Machine.—Patent dated February 4, 1862.—The clothes are placed under the plunger, which as it descends, is forced into the clothes, and in rising draws up and loosens them by mean of the suction produced, thus preventing the packing of the clothes at the bottom of the box

Claim. - First, the combination of the two suds boxes A B, the latter being fitted within the former, perforated at its sides and bottom, and provided with a perforated reciprocating plunger C, substantially as and for the purpose set forth.

Second, the two levers F G, when arranged and connected together as shown, and with the plunger C, and used in connection with the boxes A B, as and for the purposes set forth

No. 34,293.—EDWARD V. DICKIE, of Fishkill Landing, N. Y.—Improved Chimzey for Lamps.—Patent dated February 4, 1862.—This invention allows the separate cone to be dispensed with, and is designed to provide for the presentation of air in a proper manner by the form of the chimney alone.

Claim.—In glass chimneys for illuminating purposes, the transparent partition or partial partition d, when made part of and of the same piece as the chimney, substantially as and

so as to realize the advantage set forth.

No. 34,294.—JOHN DICKSON, of Newcastle, Pa.—Improvement in Manufacture of Sket Iron.—Patent dated February 4, 1862.—The object of this invention is to obtain a highly polished enamelled surface for sheet iron, which will not scale off when the iron is bent, and

will resist the oxidizing effect of the atmosphere and of water.

Claim.—The use of an enamel or preparation for giving a highly glazed and durable surface to sheet iron, composed of an oxide or oxides of lead and carbon, and prussian blue. pulverized and mixed with drying oil, and a solution of beeswax in oil of turpentine, or is equivalent, with or without the addition of a small proportion of acid, and in connection therewith the reviving of metallic lead in the enamel on the surface of the iron during the annealing process, in the manner and for the purpose described.

No. 34,295.—WATSON DUCHEMIN, of Charlottetown, Prince Edward's Island.—Improved Anti-friction Bearing of Hoisting Blocks.—Patent dated February 4, 1862.—A ring of loose sleeve is introduced between the axle and friction rolls which increases the diameter of the circle of rolls, for the purpose of preventing the liability of the axle crushing between any two rolls.

Claim.—The sleeve g, operating in combination with the box a, and friction rollers k, substantially as described.

No. 34,296.-J. H. ELLIS, of Brooklyn, Pa.-Improvement in Mills for Crushing Apple. Sugar Cane, &c.—Patent dated February 4, 1862.—This invention consists in the combination of a pair of fluted crushing rollers and rotary cleaners, so constructed and arranged that the crushed substance is thoroughly cleaned out of the cavities in the rollers, and the latter

thereby enabled always to work in an efficient manner.

Claim.—The fluted rollers B B, in combination with the rotary cleaners E E, when said parts are provided respectively with flutes a, of semi-cylindrical form and with hawk-bill

projections c, and all arranged to operate as and for the purpose set forth.

No. 34,297.—WILLIAM FULTON, of Elizabeth City, N. J.—Improvement in Cooking Apparatus.—Patent dated February 4, 1862.—In this apparatus alcohol, coal oil, or naphtha are used as fuel. The flame passing up the funnel cooks the contents of the pan on the top of the jacket, and at the same time boils the liquid in the reservoir.

Claim.—The combination of the lamp A with the reservoir or boiler B, jacket C, and extinguisher D, when the whole are arranged, constructed and operated in the manner speci-

fied and for the purpose set forth.

No. 34.298.—BENJAMIN GARVEY, of Ashland, N. Y.—Improvement in Ascertaining Position and Direction on Land and Sea.—Patent dated February 4, 1862.—This device consists of a fly-wheel mounted within concentric rings placed upon a stand. The wheel is supported upon a long axle in a universal joint, the latter being supported by a suitable arm. By means of a tube connected with a reservoir of compressed air, a steam boiler or other suitable source of power, air or steam is forced into passages made through the fly-wheel, ark, rings and stand, to vents in the rim of the fly-wheel. To the inner concentric ring an indicator is attached, and to the middle ring a graduated circle. The fly-wheel, being put in motion, rotates in a plane parallel to that in which it was first set in motion, however its position may be changed, and furnishes a base from which the direction and changes in direction of other planes and of lines can be measured.

Claim.—The application of rotating bodies to the purpose of preserving normal or base lines or planes, whereby the direction and changes of direction of other planes and lines can be accurained, for the purposes and in the manner set forth substantially in my speci-

fication

No. 34,299.—A. P. GRIFFING, of East Cambridge, Mass.—Improved Inkstand.—Patent dated February 4, 1862.—By partially unscrewing the upper part, the two holes are brought in conjunction, and they are so arranged that when the upper plate is screwed down the lower boke will be entirely closed by the upper cap.

Claim.—My improved inkstand as made with its cap, screws, and holes arranged in the

pure A B, substantially in manner and to operate as specified.

No. 34,300.—C. H. GUARD, of Troy, N. Y.—Improved Machine for Making Carriage Fields.—Patent dated February 4, 1862.—A tool-rest is adapted to and secured in its position in the usual turning machine by means of a bolt and nut, and is readily removed when necessary.

Claim.—So proportioning and arranging certain of the parts of said machine that I am enabled, by the auxiliary use of a lathe-rest R, and a cluck I, to temporarily convert the same into a turning lathe of suitable proportion for shaping wheel hubs previous to mortising the same in said machine, all substantially as set forth.

No. 34,301.—CHARLES T. HOLLOWAY, of Baltimore, Md.—Improvement in Branding and Stamping Irons.—Patent dated February 4, 1862.—This invention consists in an improved device for readily securing and releasing movable dies for branding, stamping, or printing.

device for readily securing and releasing movable dies for branding, stamping, or printing. Claim.—A branding or stamping iron, consisting of a stock B, false bottom D, movable types, E and wedges F, or screws in lieu thereof; but otherwise constructed and arranged as shown and described.

No. 34,302.—George C. Jones, of Alna, Maine.—Improvement in Shells for Ordnance.—Patent dated February 4, 1862.—The opposite sides of the shell are flattened for the purpose of giving it a tendency to fall upon one of such sides when it comes to a state of rest, in order that the bullets in the projectile may be dispersed horizontally. When used as a shell the plug is removed and its chamber filled with powder so as to burst the projectile.

Claim.—First, a projectile flattened on opposite sides or at its poles, when its equatorial belt or larger diameter only is perforated with holes or bores perpendicular to the axis of the projectile, for the reception of bullets, substantially in the manner and for the purpose

described.

Second, the removable plug or block D, by means of which, in combination with the enlarged chamber or cavity, I am enabled to use my projectile either as a shot or shell, substantially as set forth.

No. 34.303.—A. S. King, of Commerce, Mich.—Improvement in Gas Retorts.—Patent the February 4, 1862.—A movable cup, provided with a hollow cone at its bottom, is made to fit over a conical protuberance projecting from the bottom of the retort, for the purpose of increasing the heating surface and spreading the material of which the gas is manufactured over a greater surface than can be done on a plain bottom, and also for retaining the residuum from the material used, so that said residuum may be readily removed from the retort by simply removing the cap, this operation being facilitated by having the cap or cover of the retort movable. The arrangement of an annular chamber or belt in connection with the inner retort is for the purpose of preventing a draught of the gas in any one direction from the lower part of the retort, thereby allowing sufficient time for the perfect transformation of the material used into gas, and preventing the escape of the material in the form of vapor.

Claim.—First, the employment of a movable cup B, provided with a hollow cone b, as its bottom, in combination with a retort A, provided with a conical protuberance a at its bottom, and with a movable cap C, substantially in the manner and for the purpose shown

and described.

Second, the arrangement of the annular belt E, in combination with the outer retort A, and with the inner retort D, as and for the purpose specified.

No. 34,304.—C. W. KREBS, of Baltimore, Md.—Improved Sash Supporter and Fastener.— Patent dated February 4, 1862.—This device is especially applicable to the windows of cars and carriages. The sash is secured at any point at which it may be placed, and by the application of the hand to the proper point to raise or lower it, is automatically released so

Claim.—The obliquely-grooved slide E, in the described combination with the bolts C c, springs D, and a knob or handle F, the latter being employed to move the slide E, and

likewise the sash itself, in either direction, all as explained.

No. 34,305.—L. B. LATHROP, of San José. Cal.—Improvement in Apparatus for Shrinking Tires.—Patent dated February 4, 1862.—This invention relates to a device for contracting or shrinking the tires of wheels for vehicles without cutting and welding. The object of the invention is to effect the result without the employment of levers and complex arrangements for compressing the heated part of the tire, as heretofore practiced.

Claim.—A tire-shrinking device composed of a block A, provided with a concave E, curved shoulder b, guides d d, movable jaws B B, and wedges D D, all combined and

operating as shown and described for the purpose set forth.

No. 34,306.—Jones Laubenstein, of Minersville, Pa.—Improvement in Coal Screen.-Patent dated February 4, 1862.—This screen is constructed of square wrought-iron rods notched on an angle or corner with V-shaped notches and woven together; the object being to obviate the difficulty caused by the surface of the screen becoming smooth from use

Claim.—An improved manufacture of screens for the screening and preparing of anthracts coal, or other coals and hard substances. similarly handled and prepared, substantially as

described.

No. 34,307.—IRA LEONARD, of Lowell, Mass.—Improvement in Railroad Chairs.—Patent dated February 4, 1862.—The object of this invention is to avoid the jolts or jar consequent upon the wheels passing over the joints of the rails. The wooden cushion is designed to prevent the nuts of the bolts from being loosened by the jarring of the cars.

Claim.—A rail-connecting chair composed of a continuous sheet of wrought iron, bent into such a shape that it is enabled to embrace the base and the sides of the abutting ends of two rails, while it is rendered laterally clastic and vertically stiff by means of a hollow rib or fin immediately beneath the embracing jaws of said chair, all substantially as represented. In connection with my said improved rail-connecting chair, I also claim the use of the wooden cushion, E or the equivalent thereof, in the manner and for the purpose set forth.

No. 34,308.—James Y. Leslie, of Brooklyn, N. Y.—Improvement in Tobacco Holder.—Patent dated February 4, 1862.—The charger holds a sufficient quantity to fill the pipe. The box being inverted, the gate is pressed inwardly and the charger filled. The gate is

kept closed by a spring.

Claim.—The combination and arrangement of the stopple 1, charger 2, gate 3, spring 4, match-box 10, cover 11, pipe cleaner 6, the receptacles 7 and 9, with the case 8, or ther

equivalents, for the purposes set forth and described.

No. 34,309.—Thomas J. Mayall, of Roxbury, Mass.—Improvement in Restoring Wester.—Patent dated February 4, 1862.—The object of this invention is to restore old, waste India-rubber to such a plastic condition that it can be reworked and used again for manfacture.

Claim.—The combining or incorporating of waste vulcanized metallic or hermized rubber with vegetable tar or pine oils, for the purpose and substantially in the manner as set forth

No. 34,310.—GEORGE B. McCLINCH, of Hallowell, Maine.—Improved Valve for Hydraulic Engines.—Patent dated February 4, 1862.—The two opposite rubbing faces of the valve are so connected and arranged that a pressure within the chest, tending to force either valve plate laterally against its seat, will be counteracted by a similar pressure on the other valve The two valve plates are joined by a connection bar or plate extending from one w the other through a passage between the bottom of the tube and the chest, in order to conteract their tendency, under pressure, to be borne towards one another at their lower parts.

Claim.—First, the arrangement, substantially as described, of two opposite port faces

of the valve as well as those of its seat.

Second, the connection plate f, and its passage e, in combination with the two valve plates. their seat and chest, when the two opposite port faces of the valve and those of the seat thereof are arranged in manner substantially as described.

No. 34,311.—A. McGuffie, of Rochester, N. Y.—Improvement in Truss Girders for Bridges.—Patent dated February 4, 1862.—The combination of the chord, posts, and braces with the catenary series of links, is designed to prevent the tendency of any one part of the girder to sink more than another; as a load resting at one point, the weight of the whole truss is tending to operate against it, and counteract the tendency of depression at that point. Digitized by GOOGLE

Claim.—First, the combination with the catenary series of links A A, of a chord C, joint blocks B B, posts E E, and diagonal braces f f, the whole arranged substantially as specified.

Second, the joint blocks B B, serving the three purposes of connecting the links A A, supporting the joints of the chord and connecting the diagonal braces ff with the chain of links, substantially as specified.

No. 34,312.—CHARLES MONSON, of New Haven, Conn.—Improved Writing Desk.—Patent dated February 4, 1862.—The cover is so connected to the box, by two parallel bars, as to be movable upwards, backward and forwards, and may be used to place books or other articles thereon. The bottom of the drawer is raised or lowered by means of a bar operating two sets of levers. The drawer may be used as a desk.

Claim.—First, the application of the cover B to the drawer holder or box A, in manner

and so as to operate therewith, substantially as specified.

Second, the improved drawer, as made, with the elevating bottom and mechanism com-bined with the said bottom and the drawer frame, the whole being arranged substantially in manner and to operate as specified.

No. 34,313.—CHARLES MONSON, of New Haven, Conn.—Improvement in Ladders and Staging for Artisans.—Patent dated February 4, 1862.—The ladders admit of a movement in a vertical plane on pivots, and the leg stands can be lengthened so that the platform can be mised in proportion to the varying angle of the ladders.

Claim.—The combination of the two sets of parallel bars or ladders, a base or foot conmection, and a leg stand or pair of stands, or the mechanical equivalent therefor, the whole

constituting a ladder or artisan's stage, substantially as described.

No. 34,314.—CHARLES MONSON, of New Haven, Conn.—Improved folding Stair Case and Ladder.—Patent dated February 4, 1862.—A series of stair plates are secured between two sets of bars by joint pins, which admit of their being folded. Holes are made near the edges of the stairs for the hand to seize in climbing; spring catches are fitted to notches for the purpose of keeping the bars the requisite distance apart.

Claim.—First, the described ship ladder or folding staircase or combination of stair plates, (or mechanical equivalents,) and parallel bars, arranged and connected substantially in the

manner and so as to operate as described.

Second, the combination and arrangement of a series of hand holes with the said stair plates, (or their equivalents,) and their parallel bars, when arranged and connected substantally in the manner and so as to operate as specified.

Third, the combination of a spring catch and a series of notches or mechanical equivalents therefor, with the stairway constructed of stair plates and parallel bars, arranged in manner

and so as to operate substantially as set forth.

No. 34,315.—Hugh W. Mosher, of Coeymans, N. Y.—Improvement in Cooking Stove.— Patent dated February 4, 1862.—The object of this invention is to obtain a cooking stove which will be self-feeding, that is to say replenish its flue chamber with coals for a considerable period of time, and also be capable, by a simple adjustment, of being converted from a self-feeding coal to an ordinary wood-burning stove.

Claim.—The plate G, having a grate H attached, when used in combination with the front plate of the stove, the fire chamber C, flues a a c, and the draught openings ffhh h i,

as and for the purpose specified.

No. 34,316.—George Owen, of Jacksonville, Ill.—Improved Coupling for Double Plonghs. Patent dated February 4, 1862.—The ploughs are for cultivating between two rows of corn the same time, and are so constructed as to be readily brought together and used as a double mould-board plough. The coupling bars are curved upward so as to pass over the growing corn.

Claim.—First, connecting two single ploughs by means of the hinged coupling pieces or nds; s, attached to the beams of said ploughs in the rear of the standards thereof, so as to bring the ploughs close together, and thereby form a double mould-board plough, in the man-

no and for the purpose described.

Second, the combination of the curved or bent pieces t t, and the sliding joints of the bars,

C and D, in the manner and for the purpose specified.

Third, connecting the compound curved or bent bar C with the bar D, by means of the chain z or its equivalent, for the purpose set forth.

Pourth, the combination of the front curved stretcher bar B, and jointed bars C D, for the purpose of connecting two ploughs, as set forth.

Fifth, the combination of the front straight bar B with the curved or bent-jointed bar C, and straight-jointed bar D, for the purpose of connecting two ploughs, as specified.

No. 34,317.—WM. H. PALMER and WAITWELL CRUMB, of Orleans, N. Y.—Improve-Ment in Horse Pitchforks.—Patent dated February 4, 1862.—When hay is to be elevated, the bow is kept in position by means of a latch and spring placed in the shank. A cord is attached to the latch, and, when the desired elevation is attained, a sudden jerk of the cord causes the latch to be released, when the times incline downward and the hay is discharged.

Claim.—In a horse pitchfork, when composed of cross bar, shank, and prongs that are rigidly connected and suspended for operation by means of a brace, as described, the bow springing from the suspension brace and connecting it with the shank, as set forth, in conbination with a mechanism located within the shank, whereby the bow may be locked or allowed to slide, substantialy as described.

No. 34,318.—Addison Smith, of New York, N. Y.—Improvement in Rotary Blowers—Patent dated February 4, 1862.—The parts are designed to be so arranged that the moving or running parts may be operated at a very high rate of speed without being subjected to a great amount of wear and tear, and the air forced out by the action of the pistons, in connexion with the case, the blast produced being similar to that caused by an ordinary bellows, and not like that of ordinary rotary fans or blowers, produced by a vacuum formed by a rapid revolution of a fan within a case.

Claim.—The employment or use for the purposes specified of the external case A, having induction and eduction openings de, in combination with the rotary cylinder B, when the latter is provided with radial sliding pistons C, placed eccentrically within the case A, and has its pistons C operated or drawn in and out so that their outer edges will be kept in costact with the inner surface of the body b of the case A through the medium of the segments F I and grooves fg, either or both of the latter being stationary or rotating, substantially sedescribed.

No. 34,319.—C. M. SPENCER, of South Manchester, Conn.—Improvements in Breech-loading Fire-arms.—Patent dated February 4, 1862.—The breech moves in a direction lateral to the stock and barrel, the swinging movement being produced by the turning of the hammer-pin and an eccentric. The springs are operated by a flattened pin attached to a tumbler, and are made to assist in operating the breech. In opening the breech the hammer is drawn back as in cocking, and a finger is pressed against the trigger to draw it back sufficiently to allow

the cock-notch to pass it, and the trigger to be drawn back beyond the cocked position.

Claim.—First, in combination with the breech C and eccentric D, applied as described the hammer F, secured to the eccentric for the purpose of enabling the breech to be operated by

the movements of the hammer, substantially as specified.

Second, in combination with the hammer F, eccentric D, and breech C, the main spring or springs I I, so applied in relation with a flattened portion k of the hammer-pin that the said spring or springs serve not only to produce the blow of the hammer, but to assist in operating the breech, as set forth.

Third, the cylindrical tumbler G, so applied on an upright axis, and in combination with the hammer and trigger, as to allow the cock-notch j to pass beyond the trigger and the hammer, to be thrown back for the operation of the breech beyond the position in which it is

cocked, substantially as specified.

No. 34,320.—Robert Spencer, of Brooklyn, N. Y.—Improved Military or other Richal Saddles.—Patent dated February 4, 1862.—This invention is designed to secure a firm sea to the rider, the front pieces being intended to prevent the rider from being thrown forward over the saddle, thus obviating the ill effects caused by the ordinary pommel under similar

Claim.—The cantels C C and front pieces D D, when applied to or used in connexion with the parts A A of the tree connected by the springs B B, as and for the purpose specified

No. 34,321.—GEORGE R. STUNTZ, of Superior, Wis.—Improvement in Anemometers. Patent dated February 4, 1862.—An endless apron, moving upon three rollers, carries the paper upon which the record is to be made, a uniform velocity being given to one of the roller by means of clock-work. A pencil-holder is attached to the lower part of the vane shaft, and the proper mark is made on the highest part of the apron above the roller. A pricker, actuated by a spring through mechanism operated by a wind-wheel, causes perforations to be made in the paper, the number occurring in a given length of paper, denoting the velocity of the wind during the intervals of time indicated by a time scale on the paper.

Claim.—First, the combination of the system of pencils a a described, the vane D, and the endless apron F, or equivalent device, moved by clock-work, for carrying a sheet of paper or other material on which the record of the direction of the wind is to be made, the whole

arranged to operate substantially as described.

Second, the employment of one or more prickers p, actuated by means of one or more springs i and one or more pins h, deriving a rotary motion from a train of gearing driven by a wind-wheel attached to the vane, the whole operating substantially as described, for the purpose of recording upon the moving sheet of paper or other material the velocity of the wind

No. 34,322.-John G. TREADWELL, of Albany, N. Y.-Improvement in Cook Stores-Patent dated February 4, 1862.—The claim and engraving explain the nature and object of the invention. Digitized by Google

Claim.—The employment of the plate s in connexion with the ovens B B, arranged as set forth, whereby two separate draughts of air are formed, one upon each side of the ovens, for equalizing the heat, substantially as set forth.

No. 34,323.—J. G. TREADWELL and WILLIAM HAILES, of Albany, N. Y.—Improvement in Parlor Hot-air Stoves.—Patent dated February 4, 1862.—The damper is placed at the conperion of the cross-pipe and fuel chamber, and is hinged at its upper side. On its lower side is an arm extending into the pipe, provided with a cup, into which one end of a rod, passing through the top of the cross-pipe, fits. The weight serves to keep the damper open when the cover is slightly raised, but when the cover is pressed down it acts upon a rod connected with the damper, and keeps it shut. The outer pipe is designed to conduct away gases from the fuel chamber.

Claim.—First, the employment of the damper K, constructed and arranged in the manner

and for the purpose specified.

Second, the combination of the damper K, constructed and arranged as specified, with the cross-pipe G and pipe F, as and for the purpose set forth.

No. 3,324.—H. W. C. TWEDDLE, of Pittsburg, Pa.—Improved Apparatus for Distilling Coal Oil and other Substances.—Patent dated February 4, 1862.—Distillation is effected by means of superheated steam, and the apparatus is designed to dispense with fire in proximit to the still, thus insuring safety, and obviating the difficulties usually caused by the cracking or burning of the still, leakage of pipes, &c.

Claim.—First, the vacuum apparatus R, with which, by the use of steam, I produce a

Second, the use of the vacuum apparatus R, arranged substantially as described, in combination with the receivers L and M, or their equivalents.

Third, the use of the vacuum apparatus R, in combination with the steam-pipe F, arranged in the interior of the still, substantially as described.

No. 34,325.—George W. White, of New York, N. Y.—Improvement in Breech-loading fire-arms.—Patent dated February 4, 1862.—The opening and closing of the breech and the shearing of the ends of the cartridge are accomplished by a semi-revolution performed twice or by a whole revolution once performed by the revolving plug, which latter has a cam-groove cut completely around it, at such an inclination as will give the plug a length of movement sufficient to withdraw its top below the opening leading to the barrel. The top of the plug having a sharp edge circumferentially, acts against the sharp edge of the opening of the bar-rel, thus causing a shear-cut by its combined revolving and sliding movement.

Claim.—Opening and closing the rear end of the barrel by means of a plug which has both

a revolving and a sliding motion, substantially in the manner set forth.

No. 34,326.—JOHN ARMSTRONG, assignor to R. T. KENSIL & Co., of Philadelphia, Pa.—
Improved Apparatus for Drying Pasted Envelopes.—Patent dated February 4, 1862.—The
envelopes are confined to the endless bands by pieces of tape passing over each side of the
gummed part. As the envelopes pass over the drum their gum folds are exposed to the blast created by the revolving fan, and thus become thoroughly dried.

Claim.—The drum or pulley A, its endless band E, and the endless tapers K, the whole being arranged and operating substantially as set forth, in combination with the fan or its

equivalent, for the purpose specified.

No. 34,327.—F. B. FOURNIER, assignor to Himself and ROBERT WALLACE, of Berea, Ohio.-Improved Drain Roller and Moulder Combined .- Patent dated February 4, 1862. This device is designed for rolling and moulding grain lands into beds or narrow lands for the purpose of draining.

Claim.—The combination of the rollers B and C with the enlargement b, when arranged in combination with the framework, so as to operate in the manner and for the purpose set

forth.

Also, in combination therewith the plough D, in the manner and for the purpose specified.

No. 34,328.—E. D. GIRD, of Cedar Lake, N. Y., and R. GIRD, of Healdsburg, Cal., signors to Themselves and T. J. Bedwell, of Healdsburg, Cal.—Improved Budding Inf.—Patent dated February 4, 1862.—The curved portions of the blade are designed to cut the bud from the limb without taking any of the wood with it. A T-shaped incision being made in the back of the stock by the other blade, the bud is readily inserted.

Claim.—First, the employment or use of the blade B, provided with one or more curved

Portions b, substantially as shown, for the purpose of cutting the buds from the limbs.

Second, a blade provided with a spur d at its end, substantially as shown, for the purpose of making the T-shaped incision in the side of the stock to receive the bud.

Third, the combination of the blades B C, constructed substantially as shown and fitted in a suitable handle, the whole forming a new and useful implement for the purpose specified

No. 34,329.—HERRMANN GRUNDT, of Berlin, Prussia, assignor to HESS, KESSEL, & Co., of New York, N. Y.—Improved Iron Pontoon.—Patent dated February 4, 1862.—The several pieces or sections are so constructed and arranged that, by means of key or screw bolts. the said sections may be readily fastened together to form a pontoon. A part of one or both ends is made to be readily taken off or opened for the purpose of facilitating the loading or unloading the same.

Claim.—First, the arrangement and construction of iron pontoons, in sections, when said sections are provided as their ends with a flanch or angle iron, corresponding with a flanch or angle iron on another and adjoining section, the whole being arranged in the manner and

for the purpose substantially as described.

Second, the use of an opening in one or both the end sections K and L in a pontoon constructed as described, closed by a door or doors, in the manner and for the purpose substantially as specified.

No. 34,330.—E. M. HENDRICKSON, of Brooklyn, N. Y., assignor to Himself J. H. PRENTICE, and J. W. BLACKHAM, of same place.—Improvement in Sewing Machines.— Patent dated February 4, 1862.—This invention consists in the employment of a swinging or sliding frame or plate, having a motion across that of the forward feed, in combination with a suitable clamp for compelling the fabric to reciprocate therewith, so as to bring the last stitch alternately to the right and left of the needle, and thereby to form stitches standing angularly to the line of the seam.

Upon the said reciprocating bed or plate is mounted a longitudinal feeding device, which is caused to move therewith so that the action of the said cross feed is prevented from exering any sensible influence upon the proper action of the forward feed, even when they are

both required to act at the same time.

In connection with the curved edge of the above-mentioned reciprocating bed or plate is used a clamp or presser foot so arranged as to hold the junction of the rim and body of a hat with an adjustable force in the line of the stitches, and to yield to the varying thickness of the stuff in either the rim or the body or both.

By means of an arrangement of hinges and springs, the presser foot may be folded so as to disconnect it from the hat, and allow the latter to be removed and another substituted,

when the clamp may again be put in position for use.

Claim.—First, the transversely-reciprocating frame or plate K, in combination with a clamp or presser foot carried thereon, and adapted to compel the fabric to reciprocate transversely therewith, and to allow it to be fed longitudinally through or upon the same, substantially as and for the purpose set forth.

Second, mounting the longitudinal feeding device N N', or its equivalent, on the cross feed reciprocating plate K, so that each shall perform its proper function, independently of the other, substantially as and for the purpose described.

Third, the clamp or presser foot U u, so arranged in connection with the curved elge of the plate K as to hold the junction of the rim and body of a hat with an adjustable force in the line of the stitches, and to yield to the varying thickness of the stuff, substantially as described.

Fourth, the combination of the hinges u and v, and springs u'' and v', with the guide or presser foot U, for the purpose of allowing the said guide or presser foot to be folked back out of the way when changing the hat, and be again readily placed in position, sub-

stantially as described.

No. 34,331.—W. H. PLACE, assignor to Himself and George Hayward, of New York. N. Y.—Improved Blast Generator.—Patent dated February 4, 1862.—The arrangement of rings with the shaft and gearing is designed to produce an air-tight joint between the revolving cylinder and the adjoining side of the surrounding case, for the purpose of lessening friction usually caused by the stuffing box surrounding the shaft. An air chamber with a safety valve attached serves to give exit to the blast generated in case the usual orifice is suddenly closed while the machine is in operation.

Claim.—As an improvement on A. F. W. Party's hydraulic blast generator, patented June
2, 1857; first, the arrangement of rings A A B B with the shaft D and gearing F.

Second, the combination of valve V, or its equivalent, with the valve chamber G, as and

for the purpose described.

No. 34,332.—CHRISTIAN RICHMAN, assignor to GUSTAV WEDEKIND, of Philadelphia, Pa.—Improved Clasp for Lamp Shades.—Patent dated February 4, 1862.—The springs are so bent as to bear against the glass chimney and serve to maintain the ring and shade at any desired altitude.

Claim.—The clasp composed of the metal ring D, having lips f and a formed by-cutting the lower portion of the ring, and any convenient number of springs m and m, or their equivalents, the whole being constructed and arranged for attachment to the shade and chimney of a lamp, substantially as set forth.

No. 34,333.—S. H. ROPER, assignor to ELMER TOWNSEND, of Boston, Mass.—Improvement in Hot-air Engines.—Patent dated February 4, 1862.—The object of this invention is to keep the cylinder and piston cool, and also to prevent the entrance of cinders or dust from the fire between the cylinder and the piston.

Claim. -First, the employment of a current of air forced in between the prolongation of the piston and the cylinder in a direction counter to that entering from the fire-box, for the

purpose described.

Second, the air space within the piston, in combination with the double-acting pumps and hollow pistons, for pumping cool air therein and therefrom, for the purpose of preserving the packing cool, as set forth.

Third, regulating the engine, by exhausting the air from the fire-box, by means of

a governor, as set forth.

Fourth, placing the force-pumps upon the top of the cylinder and attaching the pistonrods M directly to the main piston, for the purpose described.

No. 34,334.—J. F. SARGENT, assignor to ELMER TOWNSEND, of Boston, Mass.—Improvement in Machinery for Rolling Metal for Shoe Tacks.—Patent dated February 4, 1802.—The reducing rollers are made with a bite, having the shape of two triangles or very sharp wedges, in order that the nail-plate or strip may have not only a wedge-shaped transverse section, but be straight in the direction of its length; the tendency of a single triangular bite to the rollers being to curve the plate inwards. The guides, provided with project to the rollers being to curve the plate or strip from curring up against the proper tions or lips at their inner ends, prevent the plate or strip from curving up against the upper roller, and the upsetting flanges are designed to prevent the strip from cracking or its edges having a rough and serrated appearance

Claim.—The combination of the guides F F and the lips ff, or mechanical equivalents therefor, with the upsetting flanges and the reducing rollers bevelled in opposite directions,

substantially as explained.

No. 34,335.-J. F. SARGENT, assignor to ELMER TOWNSEND, of Boston, Mass.-Improvement in Machine, for Pegging Boots and Shoes.—Patent dated February 4, 1862.

The awl and driver are secured in a block or carrier which slides vertically in a dovetailed groove formed in the face of the swing piece. This carrier is made to move up and down by means of a face cam, which is so formed and connected to the carrier as to impart a constantly accelerating motion to it, during that part of the rotation of the cam which is employed to force the awl and peg into the work. The swing-piece or pendulum is supported by the sleeve, and is so connected or pivoted therewith as to be capable of vibrating a short distance laterally about the axis of the shaft B or the sleeve F. The swing-piece is maintained in a vertical position by means of a face plate and a flange. The peg-box is connected with and forms a part of the swing-piece, the peg-wood being supplied to the machine by the action of the roughened feed-rollers having an intermittent partial rotation given them, by which the strip of peg-wood is fed forward at regular intervals. The knife which cuts the peg-wood is secured to a stationary vertical piece projecting from the main frame, each forward vibration of the swing-piece forcing the peg-wood against the knife, which severs a piece from the main strip. The vibration of the swing-piece effects the feed of the stop per the cutting of the peg-wood is separate pegs and also the feed of the pegs of the shoe, next the cutting of the peg-wood in separate pegs, and also the feed of the pegs to the action of the peg-drivers.

Claim.—First as a new machine, the combination of the mechanism for operating the awl, peg driver, and for feeding the work, with the mechanism for cutting and feeding the peg work, all being arranged compactly in the frame A, or its equivalent, and operated by the cams

and levers, arranged substantially as and for the purposes described.

Second, the pendulum or swing piece H, having the awl and peg-driver carrier L, the theat piece b, the peg-box W, the pointing mechanism and peg-wood feeder, arranged and applied thereto, or connected therewith, as set forth, in combination with so applying such Findulum to a quill or sleeve F, disposed on the driving shaft B, or on a stud or arm arranged just above or below the same, that the whole may be caused to operate together in manner and for the purpose set forth.

Third, combining and arranging with a vibrating peg-box and peg-wood feeder, constructed as described, a stationary knife, whereby the pegs are severed from the peg-strip, in

manner as set forth.

Fourth, so constructing and applying the throat-piece or block b to the pendulum H, as to have no vertical movement, in combination with so forming and applying the retainer, that it may have a short vertical movement, whereby the two are made to operate together in manner as set forth.

No. 34,336.—C. E. SWEENEY, assignor to Himself and W. H. HOOTON, of Charlestown, Man.—Improvement in Knapsacks.—Patent dated February 4, 1862.—This device is designed to prevent the knapsack coming in immediate contact with the back, thus avoiding heat and consequent fatigue, as well as the ill effects of being chilled on the removal of the knapsack after a march.

Claim.—First, suspending the knapsack A on the frames B, or their equivalents, so that an air space may intervene between the knapsack and the back of the wearer, substantially as described and for the purpose set forth.

Second, the shoulder pads C, in combination with the frame B, for the purpose specified.

No. 34,337.—Philip Ulmer, assignor to himself, L. H. Worman and J. O. Elv, of Philadelphia, Pa.—Improvement in the construction of Knife and Fork.—Patent dated February 4, 1862.—The object of the invention is economy in labor and material combined with strength and durability.

Claim.—Constructing the handles of table knives and forks of sheet metal shaped so as to be wholly closed and hollow, combined with the knife-blade or fork-tines, formed of sheet

steel, substantially as and for the purpose specified.

No. 34,338.—Philip Ulmer, assignor to Himself, L. H. Worman, and J. O. Elv, of Philadelphia, Pa.—Improved Camp Spoon.—Patent dated February 4, 1862.—The handle of the spoon has an aperture, and is bent in such a manner as to admit the handle of a knife and the tines of a fork fitting into flanges on the side of the handle.

Claim.—A spoon formed substantially as specified, so as to case with the knife and fork,

as set forth.

No. 34,339.—G. W. Walker, assignor to Himself and John Mager, of Lawrence, Mass.—Improvement in Steak Broiler.—Patent dated February 4, 1862.—This invention is designed to prevent the burning of the meat and its impregnation with smoke.

Claim.—My improved steak broiler, having its several parts constructed and arranged in

relation to each other and so as to operate in manner as set forth.

No. 34,340.—G. L. WITSIL, assignor to Himself and L. S. HACKER, of Philadelphia, Pa.— Improved Washing Machine.—Patent dated February 4, 1862.—The ribs on the vibrating blocks bear on the clothes in succession so as to partially knead them and partially drag them over the stationary bottom ribs, thus causing every part of the clothes to be operated upon and the dirt forced from the fabric.

Claim.—The frame, with its vibrating ribbed blocks D, horizontal bar E and lever F, in combination with the vessel A and its permanent ribs b, the whole being arranged and

operating as and for the purpose set forth.

No. 34,341.—B. B. LEWIS, of Bristol, Conn.—Improvement in Calendar Clocks.—Patent dated February 4, 1862.—This device is designed to be attached to a clock in use, and is made to indicate the month and day of the month, by means of hands or pointers. The apparatus does not admit of a brief description.

Claim.—First, arranging the month wheel F and the year wheel D to turn upon the same centre, in combination with the indicating pointers, that point to the numerical day of the month, and the month of the year, depicted on the face of the time dial, as a distinct statement or device for a clock, substantially as and for the purpose described.

Second, the gears q c, cam r, plate s, combined with the wheels E F, arranged and

operating substantially in the manner and for the purpose described.

Third, the hinged and pivoted click lever I, in combination with the guard c, gest B, arranged to communicate motion once in every twenty-four hours, from the centre or time spindle A, or gear a, to the wheel F, and at the same time to adjust itself to show on the face of a dial, through an indicating pointer k, the day or number of days in each of the months, substantially as described.

No. 34,342.—NATHANIEL ADAMS, of Cornwall, N. Y.—Improvement is Running Geor of Carriages.—Patent dated February 11, 1862.—The object of this invention is to allow the vehicle to which the device is applied to turn in a small compass by means of an arrangement for turning the hind axle by and simultaneously with the front axle, and in an opposite direction.

Claim.—The arrangement of the arm c, perch s and pivot f, with the independentlypivoted axles A B, as shown and described, for the purpose set forth.

No. 34,343.—C. M. ALEXANDER, of Washington, D. C.—Improvement in Bridle Bi Attachments.—Patent dated February 11, 1862.—When the rein is lightly held, the spring will act directly upon the bit; but as soon as a strong pull is used, the spring yields and the

strap causes the curb to act upon the jaw of the horse.

Claim.—The arrangement of the looped wires L L, passing through the springs, when used in combination with the shank A, strap F, and bridle-rain H, as and for the purpose

specified.

No. 34,344.-J. L. BALDWIN, of Newark, N. J.-Improvement in Moulds for making Daguerreotype Cases .- Patent dated February 11, 1862.- A removable plunger forms the

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centre upper portion of the die, and the outside portion is so combined with the casing as to be screwed down upon the lower portion of the die. The plunger is held in position, while the material is hardening, by means of a key. The outside upper portion of the die is constructed with a serew fitting into the casing to elevate and depress it, of the same pitch as the thread which forms the screw for fastening the case.

Claim.—First, the combination with the upper portion of the die C, frame or block A, and lower parts of the die or mould, of the plunger D substantially as described.

Second, the combination with the parts C and D of the key g, so as to accomplish the

purpose set forth.

Third, constructing the part C with two thread portions or screws of equal pitch, one of which fits into the block A, and the other of which forms the screw upon the work, substantially as and for the purpose set forth.

No. 34,345.-J. S. and T. B. Atterbury and James Reddick, of Pittsburg, Pa.-Improvement in the manufacture of Hollow Glassware.—Patent dated February 11, 1862.— By placing figures or designs within the surfaces of the glass, it is designed to obviate the ill effects of oil, dust, &c., upon the figures. The specification describes a method of combining a moulding and blowing process.

Class.-First, the manufacture of lamp pegs or bowls, and other descriptions of hollow glassware, with the ornamental designs or figures, intermediate the inner and outer plain surfaces of the glass, of which the articles are composed, substantially in the manner

described.

Second, the performance within a sectional mould, such as we have shown, of the pressing and blowing processes, successively in the production of one and the same hollow article of glassware, substantially as and for the purposes set forth.

No. 34,346.—Samuel Bentz, of Carroll County, Md.—Improved Hulling Machine. Putent dated February 11, 1862.—This is a combination of devices for preparing grain for the market or mill, from the garners to its delivery in a merchantable state, by which it is exceeded and moistened so that the hulls may be readily removed, and subjected to a duplicated unbranning process by the attrition of one kernel upon another under pressure. It is then placed in a drying apparatus and subjected to a current of hot air, from whence it passes through a spout to the polisher, which removes any remaining small particles of foreign matter. Thence it passes to an elevator, by which it is carried to the top of a cooler, through which and a current of cool air it descends into a second cooler, which completes the operation.

Claim.—First, the employment of a conveyer trough, substantially as described, with fights, as specified, for moistening the grain, and in combination with the conveyor, the regulated water discharge, as and for the purposes set forth.

Second, the employment of an unbranner, for removing the husk or bran from edible grain in a most state, consisting of a horizontal cylinder with inclined revolving wings, constructed substantially as and for the purposes set forth.

Third, in combination with a moistening apparatus and unbranner the drying apparatus, through which the grain is passed to be dried.

Fourth, the construction of the drying apparatus, with its partitions, &c., by which the dries compelled to commingle with the grain, either alone or in company with the detached bran or huk, as specified.

Fifth, polishing the grain after it has been dried, by passing it through an unbranning

pperatus, as described.

Sixth, removing the bran, either in a moist or dry state, from one or all the points, while masing through the apparatus, by means of exhaust apparatus, applied substantially as and for the purpose set forth.

Seventh, regulating and controlling the current of air through the dryer, by means of the

whanst, as and for the purposes described.

Eighth, the apparatus for cooling the grain, constructed and arranged as set forth.

No. 34,347.—JOHN BUSER, of New York, N. Y.—Improvement in Bottling Apparatus.—Palent dated February 11, 1862.—This invention consists of a revolving bottle holder, actually the control of the control o and by mechanism, which presents the bottles placed therein for the reception of the fluid, then to the device for supplying the liquid under pressure and for introducing the cork, when the filed bottle is removed and another one introduced. A device is also employed that turns up the wire yoke before the pressure is relieved from the cork.

Claim.—First, the revolving holder k, with the receptacles 9, for the bottles, in combination with the crosshead m and parts attached, for filling and corking said bottles, as presented by the crosshead m and parts attached, for filling and corking said bottles, as presented

by the said revolving holder k, as set forth.

Second, the arrangement of the sliding bar i, talon 7, spring 6, and lever k, when combined with the revolving holder k, for giving motion to the said holder, and presenting the bottles to be filled in unison with the other movements of the machine, as specified.

Third, the lever p in combination with the crossheads m and c, and acting in the manner, specified, to tarn the yoke 10 over the cork as the crosshead m is raised, as specified.

Fourth, the vessel r, spout s and tipping dipper t, in combination with the revolving holder k, and corking apparatus, for supplying sirup or other liquid to the bottles in aid holder k, immediately prior to the corking, as set forth.

No. 34,348.—N. W. CLARK, of Clarkston, Mich.—Improvement in Apparatus for the manufacture of Salt.—Patent dated February 11, 1862.—The several operations usually requiring the attention of three persons are so disposed as to require the attention of but one to take charge of the pump, the engine or boiler, and the salt block. The steam boile is placed over the furnace in the salt block, so that one fire will serve to heat the steam-engine and evaporating pans. The waste heat of the boiler is also utilized.

Claim.—First, in combination with the salt block a heating reservoir, in and through

which there is a constant flow of water, substantially as described.

Second, in combination with a steam boiler, placed over the furnace of the salt block, a heating reservoir F, placed over and projecting beyond said boiler, for the purpose of utilizing the otherwise wasted heat from and around the boiler, substantially as described.

Third, projecting the sides or ends of the pans over the sides or main flue of the salt block, for the purpose of affording a table on which the salt drawn or scraped from the pans may drain, and allow the drainings to run back into the pans, substantially as described

Fourth, making the salt pans of metal and of wood, so arranged and combined as that while the saline water shall lie upon both, the metal only shall be exposed to the fire or

heated products of combustion, substantially as and for the purpose described.

Fifth, so arranging the flow-offs from one pan to the next adjacent one throughout the series as that the metal portions of the pans shall always be covered by the saline water in them, and thus prevent corrosion of the pans, and consequent destruction, as well as avoiding the staining of the water or discoloring of the salt, as set forth and explained.

No. 34,349.—S. A. CLEMENS, of Rockford, Ill.—Improvement in Hemp Breakers.—Patent dated February 11, 1862.—The flax or hemp to be broken is placed upon an endless feed apron, by the movement of which it is advanced under a circumferentially grooved roller which rests upon the apron, and thence between a pair of plain feed rollers, which pass it into a narrow space between two fixed bars, and thence between the opposite faces of an oscillating beater, the two breaking edges of which approximate the bars at unequal distances from the axis of the beater. From the beater the flax passes between the two gratings of a whipper, by the vibration of which the flax is further cleaned. An artificial current of air is directed across the machine above the whipper, to remove flax slives which are thrown upwards by the whippers.

Claim.—First, the method of breaking flax or other fibrous substances by a beater, constructed substantially as described, which oscillates upon an axis on one side of its centre, and has its breaking edges on the other side, extending at unequal distances from the axis. when combined with two bars, the breaking edges of which are in correspondence with those of the beater, substantially as described and for the purposes specified.

Second, a whipper, vibrating either upon an independent axis on one side or upon an axis common to it and the beater, when combined with a beater or pair of feed rollers, substan-

tially as described and for the purpose specified.

Third, an air pipe j' with its discharging spout so arranged as to direct an artificial current of air across the machine, above the whipper, in connexion with the latter, substantially as described and for the purpose specified.

Fourth, an annular-grooved receiving roller d, resting over or upon an endless apron, and in connexion with a pair of plain pressure feed rollers, substantially as described and for the

purpose specified.

No. 34,350.—ISAAC CRANDAL, of Middlefield, N. Y.—Improvement in Pleasure Wagest.—Patent dated February 11, 1862.—This invention is designed to combine in the construction of a pleasure wagon extreme lightness with strength and durability, as well as economy in

Claim.—Forming the body A of the vehicle of two elastic parts a a attached, one part to the back axle C, and the other by a king bolt b to a spring E, which is fitted or suspended between the back parts of the thills F, the latter being attached permanently to the front axle G, and all arranged as and for the purpose set forth.

No. 34,351.—R. A. Daniels, of Wayne, Ohio.—Improvement in Fasteners for Hames.—Patent dated February 11, 1862.—The bar is provided with two hooks, one of which is permanently attached to its end; the other is movable, and by means of a catch fitting in notches in the bar is readily suited to any size collar, the elasticity of the collar causing the catch to retain its position in the notch.

Claim.—The employment of the hook A and catch C in combination with the notched bar

F and hook D, as shown, for the purpose set forth and described.

No. 34,352.—RUDOLPH DIRKS, of Philadelphia, Pa.—Improvement in Sash Springs. Patent dated February 11, 1862.—This device is designed to retain the sash in an elevated position within the frame, thus preventing the sash from bearing against the frame.

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Claim.—The spring G, composed of one piece of wire bent, attached to the sash, and ranged in respect to the grooves of the frame, as and for the purpose set forth.

No. 34,353.—W. H. DOANE, of Chicago, Ill.—Improvement in Bed-plate of Stave Machine.—atent dated February 11, 1862.—The object of this invention is to obviate the necessity of roviding a new wearing strip when a V crease or incision of such depth as interferes with ne effective operation is formed in the strip. The wearing strip may be adjusted along its bok length so as to be planed off below the base of the crease or incision, and level with

he top of the bed-plate, as often as may be necessary.

Claim.—A stave machine bed-plate A, with a gutter B, and incline scarf notches a a, in embination with a loosely-fitted wood or yielding strip D and an adjusting bar C, with nelined scarf notches c on its under side, substantially in the manner and for the purpose

No. 34.354.—O. D. ECKERSON and C. WATSON, of Middleburg, N. Y.—Improvement in Water Elevators.—Patent dated February 11, 1862.—One end of the strap is secured to the drum by means of a pin passing in a groove and through the flanges, so that the strap will run even and true. At each end of the groove cavities are formed in the drum to assist in securing the strap.

Claim.—The combination of the pin s with the flanged drum F, groove u, and cavities V,

when arranged to operate in the manner and for the purpose described.

No. 34,355.—Thaddeus Fairbanks, of St. Johnsbury, Vt.—Improvement in Weighing Apparatus.—Patent dated February 11, 1862.—This device is designed to prevent the beam from oscillating or being thrown upwards and downwards while an article is being placed upon or removed from the scale, or during the transportation of the weighing apparatus from

Claim.—The combination and arrangement of the rotary check and its latching mechanism with the scale beam and its loop, in manner and so as to operate, substantially as specified.

No. 34,356.—J. FASIG, of West Salem, Ohio.—Improvement in Hay Knizcs.—Patent dated February 11, 1862.—The friction roller is designed to prevent the stubs of hay from interrupting the withdrawal of the knife-blade.

The auxiliary handle is designed to facilitate the manipulation of the knife.

Claim.-First, the friction roller E, in combination with the blade A, constructed and

operating as and for the purpose set forth.
Second, the auxiliary handle C, in combination with the rods B, blade A, and roller E, constructed, arranged, and operating as described.

No. 34,357.—W. L. FISH, of Newark, N. J.—Improvement in Guides for Creasing Tucks and Plans Preparatory to Sewing.—Patent dated February 11, 1862.—This apparatus is designed for creasing cloth in the proper lines for the folding of tucks, to be sewed by hand or by a sewing machine, and may be attached to or used without a sewing machine.

Claim.—The combination of the rollers B D with the adjustable guide E and roller C, as

and for the purpose shown and described.

No. 34,358.—Thaddeus Fowler, of Richmond Valley, N. Y.—Improved Deck-Ballast Buts for Vessels.—Patent dated February 11, 1862.—The invention consists in the employment of a crank and pinion with the caster wheel of a weight-box, used in trimming a vessel, so as to be easily moved by one man, thus dispensing with the services of a number of mess, a usually required.

Claim.—The shaft f, pinion g, and handle I, in combination with the caster wheel c, as

and for the purposes specified.

No. 34,359.—R. C. GLYDE, of Pittsburg, Pa.—Improvement in Vessels for Transportation of Carbon and other Oils.—Patent dated February 11, 1862.—This invention is designed to lessen the expense arising from the usual method of placing the oil in barrels.

Claim.—The use, for the transportation of oil in bulk, of boats divided by partitions into

*parate compartments, substantially in the manner described.

Also, the use, for the transportation of oil in bulk, of boats divided into compartments covered over with the deck heads, in the manner substantially as described.

No. 34,360.—J. W. GRIFFITHS, of Brooklyn, N. Y.—Improvement in Ship Building.— Patent dated February 11, 1862.—The invention consists in placing the bilge keelsons outside stated of inside of vessels, for the purpose of increasing their strength and carrying capacity, and preventing leeway and deep rolling.

Claim.—The projecting bilge strakes or keelsons on the outside of ships and other navi-Rable Vessela, forming rectangular channel ways, substantially as and for the purposes

described.

H. Ex. Doc. 54—12.

No. 34,361.—R. H. HALL, of Owego, N. Y .- Improvement in Azles for Wheel Vehicles .-Patent dated February 11, 1862.—The invention consists in the method of applying a metal covering to the arms of wooden axles, for the purpose of attaining durability and economy in construction.

Claim.—The combination with axles A a of the upper casings b b, lower casing c, strip d. central threaded bolts f f, keys g g, and bands C D, all constructed, arranged, and applied

in the manner and for the purposes shown and explained.

No. 34,362.—N. S. HARRYMAN, of Frankfort, Ind.—Improvement in Cultivators.—Patent dated February 11, 1862.—This invention consists of a combination of devices as named in the claim and shown in the engraving by which the machine is readily adjusted in the cul-

tivation of growing crops.

Claim — The combination of the several parts, constructed and operating as described, to wit: The bar G pivoted to the top of the rear standards, the frame F and standards E E,

with the draught frame, all substantially as shown.

No. 34,363.—ISAAC HAYDEN, of Lawrence, Mass.—Improvement in Machinery for Clearing Cotton.—Patent dated February 11, 1862.—The cotton being placed upon an endess belt is carried forward and passes between two fluted rollers, which deliver it to a bester. whence it is thrown against a rotating wire screen and then carried forward under rollers until it is blown through the bent trunks provided with screens and cells to machine No. 2 and so on to No. 3, by which means the dirt, dust, and refuse matter are separated from the cotton.

Claim .- First, connecting two or more of a series of machines for working cotton and other fibrous substances by means of trunks provided with woven acreens and cells, salstantially as described, so as to make each machine supply or feed the next machine is

through said trunk, substantially in the manner set forth.

Second, in machinery or apparatus for cleaning cotton or other fibrous substances, a trough or trunk, which is so bent or curved as to carry one part of said trunk over a under or by the side of the other part of the trunk, so as to obtain a greater length of the trunk, so as to obtain a greater length of the trunk, so as to obtain a greater length of the trunk, so as to obtain a greater length of the trunk, so as to obtain a greater length of the trunk, so as to obtain a greater length of the trunk, so as to obtain a greater length of the trunk trunk and a greater area of screening surface than could otherwise be effected in a res of a given size.

No. 34,364 .-- W. L. HAWKENS, of Lock Haven, Pa. -- Improvement in Stump Extractors --Patent dated February 11, 1862.—The suspended frame and its connexions are designed gain speed at the expense of power from the commencement to the termination of the opera-The spring fulcra are so connected that the moving out of one shall tend to bold ze the other, to insure certain action.

Claim.—First, a suspended or yielding frame C, having upon its opposite sides rack best. D, the steps 1, 2, 3, &c., of which not only recede from each other, but also increase in length

er height as they rise, substantially as and for the purpose set forth.

Second, in combination with a lever that is worked in said rack bars, the spring-edisting fulcra so connected together as to mutually tend to hold each other to the steps, substants y as described.

Third, in combination with the rack bars and lever, and their operative appliances, the slots or grooves c in said bars, and the guide pins in said lever, for controlling the lever as it rises or descends, substantially as described.

No. 34,365.—L. P. Hawers, of New York, N. Y.—Improvement in Machine for Cuting Veneers.—Patent dated February 11, 1862.—This invention consists in a combination of parts for giving movements to the bolts from which the veneers are to be cut, and also a a peculiar feeding device for adjusting the knife to its work at the commencement of exa cut, whereby the thickness of the veneers may be graduated as desired, and the knife siwithdrawn from the bolt during the return movement of the latter, so that the edge of the knife will be preserved and much friction avoided; and thirdly, in the arrangement of degree for securing the bolt to its bed, whereby the dogging of the bolt may be expeditiously reformed and all irregularities of the bolt compensated for by a self-adjusting feature of the

Claim.—First, the combination of the adjustable slotted plates k, slides i, and eccentric l.

with the bar C, bed L, and knife V, as shown and described.

Second, the arrangement of the screw X, connected with the carriage T and provided with the circular plate Y, having the arms a' d' attached, the former being provided with the screen track b', and the latter fitted between the stops e' e', in connexion with the ratchet A also litted on screw X and the arm g', having the pawl A' attached and fitted on a colar of plate Y, all being arranged in relation with each other and operated from the shaft Z, substantially as and for the numbers set forth stantially as and for the purpose set forth.

Third, the arrangement, as shown and described, of the screws N Q with the nuts 0 K and dugs P S, for the purpose of dogging the bolt to the bed L.

No. 34,366.—C. W. Held, of Brooklyn, N. Y.—Improved Enamel for Leather.—Patent dated February 11, 1862.—The ingredients composing the enamel consist of unboiled linseed eil, Paris blue, gum-arabic, acetate of lead, litharge, Bremen green, and gamboge.

Claim.—A leader for enamelling leather, &c., composed of the named ingredients, mixed thanks in about the proposition of the second part of

together in about the proportion set forth.

No. 34,367.—Julius Hotchkiss, of Middletown, Conn.—Improvement in Skin Cartridge.—Patent dated February 11, 1862.—The object of this invention is to prepare a cartridge which while possessing the requisite strength to resist ordinary wear, and be in a measure impervious to water, will at the same time permit of the certain ignition of the powder enclosed by it, by the contact of flame with its outer surface, from burning priming, or by the contact of a percussion spark, and will also be carried from the barrel of the gan, at the monent of its discharge, in case it is unconsumed. The cartridge may or may not have a ball connecte I with it.

Claim.—In making a cartridge, so disposing the fillet or gut of which it is composed that the fibres of one portion of the gut shall transversely or spirally cross the fibres of another

portion of the gut, substantially as described.

No. 34,368.—REUBEN HURD, of Spring Hill, Ill.—Improved Device for Cutting the Noses of Scine, to prevent them from Rooting.—Patent dated February 11, 1862.—This device is designed to supersede the ordinary practice of ringing the noses of swine.

Clair.—An implement or device formed of the levers A. B, provided respectively with the

cutter C and block D, arranged to operate as and for the purpose set forth.

No. 34,369.—F. G. JOHNSON, of Brooklyn, N. Y.—Improvement in Velocipede Ice-Boats.— Patent dated February 11, 1862.—The springs and open boxes are designed to produce elastic bearings for the shaft, so that the weight of the velocipede may fall principally upon the runers, and allow the wheel to drive the spurs the requisite distance into the ice. Disks are fastened to the sides of the wheel to obviate the jarring effect of the spurs, and also to prevent them from puncturing the ice too far.

Claim.—First, The combination of the runners L L M, and the spurred wheel E, attached to and combined with a suitable body, to be used as an ice velocipede, to be propelled by

the feet or hands, substantially in the manner set forth.

Second, the springs g g, or their equivalents, in combination with the shaft F F and spured wheel E, substantially in the manner and for the purposes described.

Third, the disks a a a a, combined with the periphery of the wheel E and the spurs e c,

submantially in the manner and for the purposes set forth.

Fourth, The peculiar arrangement of the suspension-rods jjjj and the connecting-rods exec with the treadles hhhh, by which a person is enabled to sit on the seat S and exert great force upon the wheel E, for the purposes described.

No. 34,370.—Moses Marshall, of Lowell, Mass.—Improvement in Machines for Pegging Boots and Shoes.—Patent dated February 11, 1862.—The peg-wood is fed by an automatic, intermittent feed on the descent of the plunger, and splits off the peg as the plunger rises. The knife is of such a thickness as to just occupy the space from which a peg is split; and as the knife splits off a peg, it forces it under the peg-driver, to be driven in on the next descent of the plunger. Pawls are made to pass through a plate or bar held in position by a spring, which latter serves to carry forward the pawls when they are forced in by the inclined sizes of the helds in the plute have they are caused to process when the process when edges of the holes in the plate, by which means they are caused to press upon the peg-wood and effect the feed.

Claim.—First, the intermittent, automatic peg feed, operating as the plunger descends, in combination with the splitting knife, operating as the plunger ascends, substantially in

the manner and for the purposes described.

Second, a splitting kn ie, so constructed and arranged as to split off the peg and force it under the peg driver while the latter is up.

Third, the bar q operating as described in combination with the pawls b.

No. 34,371.—J. R. MASON, of Elgin, Ill.—Improvement in Ploughs.—Patent dated February 11, 1662.—The object of this invention is so to connect the main brace with the mould-board and land-side (the latter being provided with a rotary cutter) as to insure strength to, and support, the main portions of the plough at a point where the greatest strain is imposed.

Claim.—Constructing the main brace f, with a land-side termination d, and the cup v, and the ream socket vz, in combination with the landside B, cutter-plate C, and its baseenlarged axis g, the whole arranged and operating in the manner and for the purpose set

No. 34,372.—Gordon McNeil, of Chestnut Hill, Pa.—Improved Clothes-Dryer.—Patent dated February 11, 1862.—This device is designed to be secured to a window and to project Outwardly, the frame being so arranged as to be capable of adjustment to different sized wis-

Claim.—First, the combination of the bars A A', extension bars D D', strips BC, and thumb-screws d, when arranged to operate in the manner and for the purpose set forth.

Second, the manner of arranging the drying bars E, in the bars AA', so as to spread apart at their outer ends, in combination with the set-screws c, for securing the same substantially as described.

No. 34,373.—JACOB REESE, of Pittsburg, Pa.—Improvement in Oil Tenks.—Putts dated February 11, 1862.—This device is designed to obviate the difficulty, in the construction of tanks and other vessels for holding coal and carbon oil, of making them sufficiently tight to prevent their leaking.

Claim.—First, constructing tanks, or other vessels for holding coal and carbon oil or other light oils, with an outer casing around the sides of the oil vessel, so as to leave a spece between the casing and the oil receptacle for the purpose of surrounding it with water, sab-

stantially in the manner and for the purposes set forth.

Second, so constructing the outer casing of oil tanks having double sides, forming a water space around the tank, as that the upper edge of the outer casing shall be higher than the level of the top of the main tank, for the purpose of allowing the oil leaking through the walls of the tank to return itself thereto in the manner described.

No. 34,374.—Orrin Newton, of Pittsburg, Pa.—Improvement in Dies for Marriesturing Brass Kettles.—Patent dated February 11, 1862.—In making brass kettles by the method proposed, the metal is drawn out between dies which, during the operation of drawn ing, compress it so closely as to prevent "buckling," by which means an exact uniforming thickness is secured. The drawing of the metal is commenced near the circumference and gradually approaches the centre, so that the metal is forced completely through, and is merely into the dies.

Claim.—First, the use, in the manufacture of brass kettles and other articles of bollow ware from sheet metal, of plungers, around which the metal is worked, so constructed at a contract when the plunger is withdrawn in combination with annular dies, for the purpose of drawing out the metallic sheets into the required shape, substantially in the manner and in

the purposes set forth.

Second, the combination of a conical centre piece c, and corresponding side pieces etter. and bottom piece g, to form a plunger for drawing or pressing sheet metal in or through dies, so that the diameter of the plunger will contract to allow of its being easily withdrawa from the metal on which it is operating or from the dies into or through which it was forms. substantially as described.

No. 34,375.—J. B. ROOT. of Battle Creek, Mich.—Improved Rotary Engine.—Pattle dated February 11, 1862.—The packing rings are so constructed and applied within the cylinder heads, and in combination with the piston drum and packing and cylinder abuse. meut, as to prevent the steam from passing the piston, drum, and pistons. Means are employed for pressing out tle packing rings to proper contact with their opposed wearns, surfaces, so that the steam is I revented from getting behind the said packing rings also the

have been allowed to be preserd out by the wear of their faces.

Claim.—First, the packing ring G & G &, constructed with offsets, and applied and arranged within the cylinder heads and in combination with the drum C, piston packing 14.

and cylinder abutment g, substantially as and for the purpose specified.

Second, the combination with a packing ring G, abutment piece g, or other packing per of V-form, or having bevelled edges, as described, of triangular or wedge-shaped packing pieces n n, or tt, a follower p or k, and springs r or l, the whole arranged and opening substantially as specified.

Third, the packing pieces ss, applied in combination with the segment pieces dd. and with proper provision for the admission of steam behind them, substantially as and for the

purpose specifica.

No. 34,376.—J. B. Root, of Battle Creek, Mich.—Improved Rotary Engine.—Patent dated February 11, 1862.—This invention consists in a means of keeping the pistons of in contact with the inner periphery of the cylinder and radial to the centre thereof, in test revolutions with the eccentric drum; also, in a construction and mode of applying and securing the cylinder heads to the cylinder, whereby the pistons are prevented from binding. in case of unequal expansion of the cylinder; also, in an arrangement of a valve and str in combination with a steam jacket around the cylinder, to provide for the warming up and expansion of the cylinder before starting the engine, as well as for keeping the cylinder warm during the operation. An arrangement of exhaust valves, used in connexion with such jacket, provides for the reversal of the engine.

Claim.—First, the combination of the rings a a attached to the pistons, and the habs!

projecting inward from the cylinder heads in positions eccentric to the shaft and piston dran

at concentric with the cylinder, substantially as specified.

Second, the cylinder heads B B, constructed with rebates and fitted to the cylinder and w rebates in the rings G G or flanges secured to or formed on or in the cylinder, substantially as and for the purpose described. Digitized by GOOGIC

Third, the steam jacket H H', with its two compartments communicating with the cylinder perts l l', its partition k, passages m m', and valve I, all constructed and arranged and operating substantially as set forth.

Fourth, the two ports a a and valves p p', combined with the cylinder and steam jacket

HH, substantially as and for the purpose described.

Fifth, the linings b b, applied in combination with the rings a a of the pistons and the bubs c c of the cylinder heads, substantially as and for the purpose specified.

No. 34,377.—A. F. SMITH, of Norwich, Conn.—Improvement in Trucks for Locomoties.—Patent dated February 11, 1862.—Lateral motion is allowed the truck beneath the belster, which latter takes the weight of the engine in the centre. The belster is suspended at the ends by bars attached to the moving ends of the pendant links that are attached by bolts at their upper ends to the brackets on the frame, thus allowing the forward part of the engine to travel as a tangent to the curve, while the axles of the drivers are parallel, or nearly so, to the radial line of the curve.

Claim.—The employment, in a locomotive engine, of a truck or pilot wheels fitted with the pendant links o a, to allow of lateral motion to the engine as specified, whereby the drivers of said engine are allowed to remain correctly on the track, in consequence of the lateral motion of the truck, allowed for by said pendant links, when running on a curve, as

set forth.

No. 34.378.—EDWARD SPENCER, of St. Louis, Mo.—Improvement in Railroad Ticket Starp.—Patent dated February 11, 1862.—A ribbon is wound from one roller upon the other, and passes over the face of the type, and being saturated with ink, affords a constant supply to the type. The operation of the instrument is designed to print a card or ticket and cut it at the same time.

Claim.—Combining the rollers e e, the die d, and the ribbon f, with the jaws of the pincen, substantially in the manner described for the purpose specified.

No. 34,379.-W. O. STRONG, of Detroit, Mich.-Improved Device for Distributing Grain in Elecator Bins.—Patent dated February 11, 1862.—The grain in falling through the tube strikes upon the cones, by which it is deflected and caused to fall in a shower over the bottom of the bin. It is thus evenly distributed, regardless of the weight and size of the par-The tendency of a single fall being to separate the large and heavy from the small

and lighter grain.

Claim.—The even distribution of grain in bins by means of the pipe E F, made either tekscopic or fixed, and the truncated cones G G G, or their equivalents, arranged substantiation of the pipe E F, made either tekscopic or fixed, and the truncated cones G G G, or their equivalents, arranged substantiations of the pipe E F, made either tekscopic or fixed, and the truncated cones G G G, or their equivalents, arranged substantiations of the pipe E F, made either tekscopic or fixed, and the truncated cones G G G, or their equivalents, arranged substantiations of the pipe E F, made either tekscopic or fixed, and the truncated cones G G G, or their equivalents, arranged substantiation of the pipe E F, made either tekscopic or fixed, and the truncated cones G G G, or their equivalents, arranged substantiation of the pipe E F, made either tekscopic or fixed, and the truncated cones G G G, or their equivalents, arranged substantiation of the pipe E F, made either tekscopic or fixed, and the truncated cones G G G, or their equivalents, arranged substantiation of the pipe E F, made either tekscopic or fixed, and the truncated cones G G G, or their equivalents, arranged substantiation of the pipe E F, made either tekscopic or fixed, and the truncated cones G G G, or their equivalents, arranged substantiation of the pipe E F, made either tekscopic or fixed the truncated cones G G G, or their equivalents of the truncated cones G G G, or their equivalents of the truncated cones G G G, or their equivalents of the truncated cones G G G, or their equivalents of the truncated cones G G G, or their equivalents of the truncated cones G G G, or their equivalents of the truncated cones G G G, or their equivalents of the truncated cones G G G, or their equivalents of the truncated cones G G G, or their equivalents of the truncated cones G G G, or their equivalents of the truncated cones G G G, or their equivalents of the truncated cones G G G, or their equivalents of the truncated cones G G G, or their equivalents

No. 34,380.—L. U. STUART, of Brooklyn, N. Y.—Improvement in Bellows.—Patent dated february 11, 1862.—This invention is particularly applicable to organ bellows, and consists in providing an additional reservoir of wind with a movable part to be added to the ordinary believe, and connected with the same by a suitable tube, or air trunk, in such a manner that the wind from the bellows is admitted by the air trunk into the interior of said reservoir, and so arranged that the pressure of the air acting on the said movable part of the additional reservoir, is transmitted to and made to act upon the top of the bellows, producing an additional pressure thereon.

Claim. The arrangement of a reservoir C, or its equivalent, with a movable part c, in combination with an ordinary bellows A, and connecting with the same by an air trunk D, win equivalent, as described, and so arranged that the force or power of the said movable parts is transmitted to the bellows and made to act upon the same as an additional pressure.

No. 34,381.—8. T. THOMAS, of Laconia, N. H.—Improvement in Fancy Looms.—Patent dated February 11, 1862.—The object of this invention is, first, to avoid sudden concussion (that takes place) on the stoppage of a loom. When the stoppage is caused by the breakof the filling the loom is instantly stopped by a brake, so that the main crank makes but about half a revolution, while the shippers commonly used allow the crank to continue in motion, and the shuttle makes several shots before the loom is stopped.

Scond, an arrangement of devices for changing the colors of the filling or west. The mode of operating the "let-off" and "take-up" motions is designed not only to keep the "arp at a uniform tension, but also to prevent the loom from making thin places in the fabric, because if the reed does not strike the cloth with sufficient force to drive the flighter

back to a given point, the" take-up" ceases to draw the warp forward.

Claim.—First, the mode of partially overcoming the momentum of the lay by means of the inclined plane bent lever 22, brake and flange, or their equivalents, previous to the final arrest of the dagger by a fixed stop.

Second, the mode of elevating the shuttle-box levers by means of the slide wedges traversing in single or double guides and operated by the draw wires and series of connected levers, combined with the series of star cams and ratchet, acting on one or both sides of the loom, M set forth.

Third, the combined action of two or more wedges or inclined planes, one above the other, for elevating the shuttle-box, by means of which the extreme distance traversed by the box is about equal to the sum of the height of the large ends of the wedges.

Fourth, the arresting or governing of the feed or take-up motion that operates the cloth beam, by means of the action of the reed and flighter, the cloth beam and flighter being connected by the lever 315, slide 313, pawl 314, and ratchet 431, or their equivalents, as described.

No. 34,332.—W. H. THOMPSON, of Cleveland, Ohio.—Improvement in Railroad Switch.— Patent dated February 11, 1862.—A stand of cast iron is placed firmly over the switch bar; from the stand rises a signal post, which is made to rotate by means of a slotted arm, operated by a pin projecting from a stud on the switch bar. A movement of the lever causes

the signal to turn in any required direction.

Claim.—The stand A, signal post I, slotted arm M, placed beneath the base A. and stad N, upon the switch bar B, when these several parts are arranged, constructed and operated

as and for the purpose set forth.

No. 34,383.—James Vincent and Samuel Leslie, of Quasqueton, Iowa.—Improvement in Churus.—Patent dated February 11, 1862.—The double comb-breaker consists of two combs placed at right angles to each other, surmounted by a shield. The rotations of the churn gives the cream two motions, one centrifugal and the other vertical, throwing the cream as it rises forcibly against the main comb, a portion passing through the intersices thereof, while the larger portion is broken and descends to the bottom of the vessel.

Claim.—The double comb-breaker F H and cap E, with the vessel J and revolving

platform B, combined and operating in the manner substantially as described.

No. 34,384.—MILAN WATERBURY, of Polo, Ill.—Improvement in Car Compling.—Patent dated February 11, 1862.—The catches are so combined with a spring buffer that they may recede with the buffers, but at the same time be interlocked; while the recoil of the springs behind the buffers, when the train is started, will prevent any sudden strain upon the coupling, and also prevent the jaws or catches from being separated.

Claim.—So combining the hooks or catches E E with the spring buffers C C, as that whilst they move longitudinally with the buffers, they may have a lateral motion independ

ent of them, substantially as and for the purpose described.

No. 34,385.—J. S. WILLIAMS, of Philadelphia, Pa.—Improvement in Camp Stores.—Patent dated February 11, 1862.—The outer and inner casings are composed of two pieces, hinged to each other. A detachable cover, provided with two flanges, fits over the upper edges of the outer casing. The several parts combined are designed to be used either as a chest, a store, or an oven. A folding shelf is arranged for suspension to the edge of the cover by means of hooks.

Claim.—First, the outer casing A, the inner casing D, the latter being composed of two pieces, hinged to each other, as set forth, in combination with the cover E, its upper flarge i, and lower flange e, the whole being constructed and arranged as set forth for the purpose

Second, the shelf G, and the plates H and H', with their hooked ends and projections a the whole being constructed and arranged for suspension to the flange i of the cover, as and for the purpose set forth.

No. 34,386.-R. P. WILSON, of Cleveland, Ohio.-Improved Washing Machine.-Patent dated February 11, 1862.—The vessel containing the clothing is mounted on trunnions, and as it revolves the clothes are precipitated from one end to the other, thus subjecting them alternately to a rubbing and pounding action; the rubbing being effected by the cluthes sliding over the corrugated surface on one end.

Claim.—The semi-spherical protuberances D, and corrugated convex rubber C, with the alr-tight cylinder or barrel A, arranged to revolve in the direction of its length, when com-bined, arranged, and operating in the manner described.

No. 34,387.—B. W. Wooster, of Albany, N. Y.—Improvement in Handles for Coffins.—Patent dated February 11, 1862.—The handles are hung to a loop which is screwed into the wood independently of the plate, the latter being subsequently fixed to the wood, for the purpose of securing strength and allowing variously shaped and differently ornamented plates to one form of handle.

Claim.—The combination of the handle H and its loop E, constructed as described, with

the ornamental plate P, for the purpose set forth.

No. 34,388.-D. T. YEAKEL, of Lafayette, Ind.-Improvement in Breech-loading Ordmance.—Patent dated February 11, 1862.—The breech cap is hinged to a shaft or arm, the latter being made to revolve upon the breech of the gun, in connection with a revolving hoop behind the trunnions. The cap being screwed on is retained in position by means at a self-adjusting ratchet and spring. Digitized by GOOSIG

Claim.—The combination and arrangement of the hinged screw cap E, shaft D, hoop c, patchet h, stop L, and breech A, constructed and operated substantially as described.

No. 34,389.—S. R. ANDRES, of Troy, N. Y., and McDonough Bucklin, of New York, N. Y.—Improvement in Articles of Food made of Sweet Potatoes.—Patent dated February 11, 1862.—The object of this invention is to preserve the sweet potato by desiccation, so that it can be kept or transported to any part of the world.

Claim.—Desiccated cooked sweet potatoes, as a new article of manufacture, made as de-

scribed or in any equivalent way.

No. 34,390.—T. J. BARRON, Brooklyn, N. Y., assignor to JAS. HORNER, of New York, N. Y.—Improvement in Lamps.—Patent dated February 11, 1862.—Glass or burnt clay being non-conductors of heat, the oil in the tubes of those substances is prevented from being volatilized too rapidly or in greater proportions than the supply of oxygen requires, thus insuring perfect combustion. The upper end of the tube is contracted for the purpose of preventing the wick from crusting and generating an excess of vapor.

Claim.—The employment or use in a lamp for burning coal-oils, or other similar hydro-

carbons, of a wick tube D, constructed of glass or burnt clay as and for the purpose

Further, having the tube D, constructed with a contracted orifice a, as and for the purpose

set forth.

No. 34,391.—W. H. Buckland, of Glamorgan Co., Great Britain, assignor to Emory RYDER, of New York, N. Y.—Improved Mode of Preparing Peat.—Ante-dated, September 30, 1859.—Rough peat from the bog is thrown into a hopper, from whence it is carried down into a conical straining vessel by the rotation of a conical screw, by which means the pasty and decomposed parts of the peat will be forced through the perforated sides of the conical chamber. The pieces are then delivered upon an inclined plane which may be heated, or into a hot-air chamber. The expressed mass may then be moulded and cut into convenient lengths for drying and hardening.

Claim.—Separating the decomposed from the fibrous or undecomposed portions of the peat by straining or keeping back the latter while the decomposed portions of the peat are forced through the perforated sides of the straining vessel or receptacle, substantially in the manner

and for the purpose specified.

No. 34,392.—D. H. CHAMBERLAIN, of West Roxbury, Mass., assignor to Himself and JOHN HARTSHORN, Boston, Mass.—Improved Apparatus for Generating Vapors.—Patent dated February 11, 1862.—The fluid is presented to the heat on a series of cloth or felt covered partitions which are supplied with the necessary amount of fluid to keep them properly saturated, by means of an endless belt of felt or other suitable material passed by a move-ment of the machinery, from the fluid reservoir to the generator, through tubes. The belt passes around perforated cylinders, and the fluid falls into the cylinders, and, passing through the holes, saturates the belt, by which latter it is carried to the generator, and coming in contact in a finely divided state, with the heat radiated from the hot partition plates and the inner surface of the cylinder, the fluid is quickly evaporized.

Claim.—First, in combination with a reservoir for containing the fluid, and a generator for evaporating it, the endless belt D and tubes L for conveying the fluid to the generator,

substantially as described.

Second, the generator B, with its partition b, in combination with the cylinder C, and its covered plates g, substantially as set forth.

Third, the reservoir G in combination with the cylinder K, substantially as specified.

No. 34,393.—James Clayton and Abraham Campbell, of Brooklyn, N. Y., assignors to ROOT'S ROTARY STEAM-ENGINE Co., of New York, N. Y .- Improved Rotary Engine .-Patent dated February 11, 1862.—The rings or segments are made of two thin pieces of sheet copper or other flexible metal, united at their edges, to form a steam chamber between them; the segments are furnished with short nozzles, which enter orifices provided in their respec-tive rings, for conveying steam from the interior of the cylinder into the said segments. Hollow expanding packing pieces are arranged in a cavity behind the abutment, and serve to keep the abutment up to the piston drum. The packing pieces communicate with the cylinder through separate orifices in the abutment. Cock valves are fitted to the steam jacket, one opposite each of the ports, so constructed and applied as to open and close their respective ports, without obstructing the passage of the steam round the jacket. A third port allows the escape of any steam that may be left in front of the pistons, after they have Passed the other two ports.

Claim.—First, the hollow expanding metallic packing composed of rings or segments G G' G' G', or strips P P', constructed substantially as described and applied between the cylinder heads and their packing rings behind the abutments or in any other part of a rotary

engine, to operate substantially as set forth.

Second, the arrangement of the orifices in the segments G G' G* G'*, with respect to the steam spaces of the cylinder, substantially as described and for the purpose set forth.

Third, the arrangement of the two hollow expanding pieces p p', for packing the sbutment, one having communication with the cylinder on one, and the other on the other side of the

abutment bearing, substantially as specified.

Fourth, the employment, in combination with three or more pistons and a steam jacket surrounding the cylinder, of two eduction ports * *, fitted with separate valves N N', and a third eduction port l, under the reversing valve, the latter port to continue the eduction after the port n or n' is closed, substantially as herein specified.

No. 34,394.—John Critcherson, assignor to Himself and G. P. Towle, of Boston, Mass-Improved Roller for Clothes-wringer.—Patent dated February 11, 1862.—The metal disks. being imbedded by pressure into the disks of felt, serve to keep the latter from slipping, and give firmness to the roller. The shaft upon which the disks are secured is made square.

Claim.—As a new article of manufacture, a roller for clothes-wringers, consisting of disks of felt C, with interposed disks of thin metal d, arranged on a polygonal shaft A, and secured thereon in a compressed form by collars B b, the whole operating in the manner and for the purpose substantially as described.

No. 34,395.--C. A. CUMMINGS and F. M. SWALLOW, of Worcester, Mass.-Improved Clothes-wringer .- Patent dated February 11, 1862 .- Straps are attached to the projecting ends of the upper roller shaft; to the lower end of the straps are attached hook rods connected to a spring, which latter is placed under the base that supports the standards, and

admits of adjustment as the clothes pass between the rollers.

Claim.—Making the rollers self-adjustable by means of the straps and spring, when constructed and operating in the manner and for the purposes as set forth and described.

No. 34,396.—L. S. FAIRCHILD, of Cleveland, Ohio, assignor to Himself, Alonzo HAZEN, A. M. HAZEN, of Cleveland, Ohio, and A. J. WHITING, of Perry, Ohio.—Improvement in Shingle Machines.—Patent dated February 11, 1862.—As the knives move up on the slide a dog strikes against a catch in a cam, which turns the shaft with the screws half way round, thus operating the gears and moving out the block. A spring pressing against an elongated cam on the end of the shaft prevents the latter from reversing its motion. On each side of the inner cam there is a catch, so that every time the knife is raised the shaft is turned half way round by the action of the dog on the cam. The dog is connected to the pinion by an arm. The screws are so placed on the shaft that when one gear is operated by the screw of the greater lead the other will be operated by the lesser lead; one gear will be thrown round further than the other alternately, thus moving one end of the block out beyond the other, cutting it every time at an opposite angle, the inclination or lead of the first half of the screw being much less than that of the other half.

Claim .- The intermittent screws O and P, gears M and N, cam R, dog S, and cam E', when arranged and operating, substantially in the manner and for the purposes set forth.

Also, the lever V, spring J', segment gear U, in combination with the dog S, and cam E',

and spring I', in the manner and for the purpose described.

No. 34,397.—J. LOFOENDAHL, assignor to Himself and N. P. LINDERGREEN, of Boston, Mass.—Improvement in Spool-holding Devices .- Patent dated February 11, 1862.—This invention consists in attaching one or more hooks to a bracelet or wristband for the purpose of holding the balls or spools of yarn, the bracelet or wristband being placed on the arm of the person knitting, and the ball or spool suspended to the bracelet or wristband by the hock or hooks, so that the yarn may freely unwind from the ball or spool during the process of knittings Claim.—The construction of the bracelet or wristband A and hooks B C, either or both to

form a new and useful implement or device for the purpose set forth.

No. 34,398.—J. W. WHEELER, assignor to H. H. WHEELER, of Cleveland, Ohio.—Improvement in Water Elevators.—Patent dated February 11, 1862.—The object of this device is to prevent the rope from slipping on the wheel, caused by ice or snow. The corrugations serve to break up the ice, which is then pressed through the opening in the wheel Claim.—A wheel or pulley having a V-shaped channel upon its periphery to receive the

chain or rope, the inclined sides A of said channel being corrugated laterally and the bottom C

open, as and for the purpose described.

No. 34,399.—J. C. Adams, of Baltimore, Md.—Improvement in Combined House, Bridge, Boat, and Wagon Body.—Patent dated February 18, 1862.—This invention consists in so constructing and arranging the sides and pieces and floors that they may be readily formed into houses. The roof is so constructed that it can be used as a wagon body or boat. When desirable to construct a bridge, the parts forming the boat are placed side by side, and the boards for the house laid upon sleepers placed on the boats similar to a pontoon bridge.

Claim.—The described house, or its equivalent, which can be converted into the uses set

forth.

No. 34,400.—J. S. BARDEN, of New Haven, Conn.—Improvement in Crank and Crosshead Connexions for Steam Engines .- Patent dated February 18, 1862 .- The cross-head is

emposed of two parallel grooved bars and three rollers, two of which are provided with anches to extend into the two grooves of each of the said bars, the object being to enable e piston rod of a stationary cylinder of a steam engine to be applied to a crank of the driving zaft without the intervention of a connecting rod, such as is commonly employed. The mi-tubes enable the rollers to be passed over one of the arms or thicker portions of a bell ank when necessary in order to apply the rollers to the neck of such crank.

Claim.—The combination and arrangement of the flanches oo, grooves i i, and rail bearigs k i m, with the three friction rollers, and the cross-head A, the whole being applied to a

ank and a piston rod, and to operate substantially as set forth.

Also, the combination of the semi-tubes F G, with the rollers, when applied, and to operate ithin a rail frame A, as described.

No. 34,401.—C. H. BURGESS, 2d, of Sandwich, Mass.—Improvement in Doors for Revercratory and other Furnaces.—Patent dated February 18, 1862.—The doors of the furnaces re double and made water-tight, except at the top, which may be left entirely open. The rater is kept at a certain height, and fed by a pipe leading from a cold water reservoir, the bject being to prevent the door from warping or other injury from excessive heat.

Claim.-Constructing the doors of reverberatory and other furnaces, with the water space

lescribed, in combination with the arrangement of the pipes essentially as set forth.

No. 34,402.—M. L. CALLENDER, of New York, N. Y.—Improvement in Hydro-carbon Burners.—Patent dated February 18, 1862.—The deflector is held in position in the cone by neans of springs, and is provided with a metallic shield to protect the top of the wick tube from the fame. When a chimney is used the deflector is removed. The length of the spiral wil is designed to absorb the heat imparted to the shield, &c.

Claim.—First, the relative arrangement of the cone d, and the interior deflector I, with its hield b, for the purpose of burning hydro-carbon oils with or without a chimney in the manner

pecified.

Second, a burner so constructed as to increase the length of its metallic connexion between be flame and the body of the lamp and the wick tube without adding materially to its height, sing for that purpose the spiral coil B B', on which the cone d is mounted.

Third, the new and cheap method of forming the levers s s' from the metal of which the ody of the burner itself is constructed, by which means the springs to hold the chimney position and the body of the burner are made simultaneously from one piece of metal.

No. 34,403.—Paul Casamajor, of New York, N. Y.—Improved Apparatus for Making integer.—Patent dated February 18, 1862.—An artificial draught is created by a heated be connected to the cask by means of a pipe which enters a hollow axle communicating by penings in the axle with the interior of the cask at each end. The cask is filled with wood lavings or other similar porous material. The liquid to be converted into vinegar is then oured in and rotary motion given to the cask, thus thoroughly wetting the shavings. en drawn in, and, passing through the wet shavings, turns into vinegar, by oxidation, re liquid in which they are soaked.

Claim.—First, the method of creating an artificial draught by inspiration or suction, subantially as described and for the purpose set forth.

Second, the rotary apparatus, substantially as described and for the purpose set forth.

No. 34,404.-J. CLARKE and D. FRENCH, of Syracuse, N. Y.-Improved Composition for etements, Roofing, and other purposes.—Patent dated February 18, 1862.—This composition usists of broken stone, gravel, coarse sand, coal ashes, coal tar, pulverized rosin, quick-me, bydraulic cement, and leach ashes. The parts being thoroughly amalgamated, the emposition is app'ied in a plastic state, and hardens in drying.

Claim.—The described composition, substantially as and for the purposes set forth.

No. 34.405.—M. C. COGSWELL and A. G. WILLIAMS, of Buffalo, N. Y.—Improvement in Grain Drives.—Patent dated February 18, 1862.—The head is made double, so as to form a Afacious air chamber, and is connected, and revolves upon a tubular or hollow journal, through which air is admitted to the said chamber and thence to the perforated distributing Pres. Buckets are used for lifting, stirring up, and showering the grain in the case.

Claim.—First, the double head c, having an air chamber C' and hollow journal D, for the

purposes and substantially as described.
Second, the combination of the double head C, with perforated distributing air tubes F, for

be purposes and substantially as described.

Third, the combination of the double head C, hollow journal D, distributing air pipes F, and litting buckets I, with the case A, for the purposes and substantially as set forth.

No. 34,406.—James Collins, of Farmington, Ill.—Improvement in Cultivators.—Patent ated February 18, 1862.—Two pendant vertical draught rods are attached to the outer ends f the forward cross-bar, said rods being connected to the axle by braces, and projecting lown a sufficient distance to permit the plough beams to work in a horizontal position. A singed clevis is attached to the front end of each plough beam, and so connected with the

vertical rods as to afford free lateral and vertical motion to the plough, and prevent their rocking or deviation from a vertical position. Vertical crank levers are attached to the axe, and being threaded at their lower ends, admit of adjustment by means of a nut.

Claim.—First, the combination of the perpendicular draught rods ff depending from the transverse bar a a' and braces h h, extending back from the lower part of the said draught rods to the axic-tree, all constructed and arranged as described and for the purposes stated. Second, the combination of the clevis g and draught rods f f, when constructed and open

ating as and for the purposes set forth.

Third, the crank levers k k' and adjusting nuts z, constructed and arranged in communication.

with a corn plough on wheels, in the manner and for the purposes set forth.

Fourth, the combination of the cross-bar a a', draught rods ff', braces h h h', clevis g, aljust ing levers k k' and p p', curved axle-tree e e', and seat m, all substantially as and for the puposes set forth.

No. 34,407.—HANNAH D. CONRAD, of Dayton, Ohio.—Improvement in Setting and Threating Needles in Sewing Machines.—Patent dated February 17, 1862.—The device consists of a flat bar of metal, with a hole in one end, by which it is pivoted or hinged to the buttal carries the needle, or to the socket in which the needle bar traverses. At the other end is hub with a conical or funnel-shaped perforation, to conduct the thread to the eye of the needs. A notch is cut on one side of the hub into the conical perforation through which the thread passes. A stop is made on the side of the threader for the end of the needle bar to res: a when the device is applied to the socket in which the needle bar traverses.

Claim.—First, in combination with a sewing machine, the improved needle threads and setter described, pivoted or hinged to the needle arm or bar to the needle bar socket.

Second, and, in combination with the improved needle threader and setter pivoted or himed as described, the stop k, for the purposes set forth.

Third, in combination with the funnel F, the screw J, for adjusting the eyes of needles of different sizes opposite the termination of the funnel.

No. 34,408.—E. T. COVELL, of New Bedford, Mass.—Improvement in Lamps.—Pater dated February 189 1862.—The slitted deflector surmounts a perforated thimble, which exp ports the lamp-glass, and is connected by radial arms, with an inner band embracing the upper end of the casing tube so loosely that it can be freely turned upon the same, so that a

smoky flame can be prevented by partially turning the said thimble upon the tube.

Claim.—First, placing the slitted deflector d over the wick tubes g and f, for the purpose of enabling said lamp to produce a flat flame from a tubular wick; substantially as represented but this only when air is permitted to flow through the space within the wick tube g. in the purpose of aiding in the production of a more perfect combustion than has ever below been produced in an oil-lamp.

Second, when a slitted deflector is placed over the tubular wick of a lamp, there is a second, claimed the supporting the said deflector in such a manner that it can be turned to any desired position, independently of the wick tubes of said lamp, substantially as set forth.

No. 34,409.—HENRY CRAIG, of Cleveland, Ohio.—Improvement in Microscopes.-Putt dated February 18, 1862.—The construction of the lens requires considerable manipulation. for a description of which reference must be had to the specification.

Claim.—The lens E, when constructed as set forth.

No. 34,410.—A. B. Davis and Thomas Crook, jr., of Philadelphia, Pa.—Improvement in Corn-shellers.—Patent dated February 18, 1862.—Angular strips or ribs are cast or other. wise secured to the plate wheel, and are designed to turn the point of the cob away from the face of the wheel, and to direct it towards the inclined and ribbed peripheries of the stripper wheels, so as to remove the kernels from the point of the cob.

Claim.—The angular strip a on the wheel K, arranged in respect to the stripper wheels L

and L', substantially as set forth for the purpose specified.

No. 34,411.—G. B. DAVIS, of Chicago, Ill.—Improvement in Water Filters.—Patent dated February 18, 1862.—The false bottom, having a hole in its centre for the passage of wait. divides the tub into two compartments, the lower one containing the filtered water. One the false bottom is a strainer, and over the strainer is secured a filtering case, performed its sides, and filled with a filtering material consisting of fine charcoal and coarse sand. A metallic perforated cone extends up in the centre of the filter. An air tube extends from in top to the lower compartment, to admit of a free discharge of water and the escape of all to the part fills with water. The impurities are drawn off from the upper compartment by means

-First, the tub or pail A, divided into two compartments C D by a horizontal partition or false bottom B, in combination with the filter case G, perforated at its side or side of sid provided with an internal perforated cone d, and fitted or arranged on the salse bottom E.

to operate substantially as and for the purpose set forth.

Second, the combination of the partition or false bottom B in tub A, filter case G, cocks 2 K, and air tube J, when all arranged substantially as and for the purpose specified. Third, the combination of a double-walled tub or pail A with the false bottom B and filter ase G, arranged as shown to form combined filter and cooler, as set forth.

No. 34,412.—Francis Deluce, of Boston, Mass.—Improved Centring Implement.— eatent dated February 18, 1862.—The chuck which carries the drill or instrument which orms the centre hole is provided with a concave or conical guide, which envelops the drill, and is capable of yielding or sliding back upon or over the drill, so as to expose the cutting part thereof, to permit it to perform its function, the purpose of said concave or conical piece zing the automatic adjustment of the cylindrical or of the prismatic piece to be operated upon, so that its axis will be practically a continuation of the axial of the line.

Claim.—The implement for drilling central holes, constructed and operating substantially as set forth. Also, in combination with the said improvement, the means described, or the

equivalent thereof, for changing the relative position of the drill.

No. 34,413.—Augustus Destouy, of New York, N. Y.—Improvement in Sewing Machines.—Patent dated February 18, 1862.—The awl being attached to a lever, is curved concentrically with the shaft upon which it is mounted. The other end of the lever from the awl is provided with a curved slot, in which a pin plays, causing motion to the lever and awl, the pin being actuated eccentrically from the main gear. The forked needle is designed to pesetate, but not pierce, and acts in conjunction with the awl, its motion being vibratory in one place. The point of the needle is forked in such a manner as to seize within its recess the under thread when stretched across the opening in the support. The shank of the rotary book is shaped to conform to the stationary thread case, around which it is caused to travel, and the book is arranged to operate in conjunction with the forked needle, so that the thread carried through the material to be sewed is seized by it, and in the form of a loop carried over and around the thread case. The thread case is composed of two shells hinged together, and open at one side, so that the spool contained in the same may be seen. One of the shells is perforated for the passage of the thread. The case is held loosely in position by means of two side cups. The thread, when taken off the forked needle, is carried over and around the case by passing between its holding cups.

Claim.—First, a machine provided with a table or support for the material to be sewed to

rest upon, and a feeding and thread-controlling device.

Second, the combination of the following elements constituting a sewing mechanism adapted to the manufacture of boots and other like articles, viz: an awl and a forked needle, the former for piercing the material, and the latter to carry the under thread through it and a stationary thread case and a rotating hook, the former for holding the upper thread, and the latter to seize and carry the under thread loop over and around the thread case, so as to lock in the thread fed out from said case, the whole being arranged substantially as described, to operate in the manner and for the purposes set forth.

No. 34,414.—WILLIAM H. DEVALIN, of Sacramento, Cal.—Improvement in Rotary Enfines.—Patent dated February 18, 1862.—The pistons, four in number, are caused to rotate and slide radially, being fitted in boxes provided for their reception in the piston-wheel. The pistons have each a rod which passes through a steam-tight stuffing box, and also a cos-head, furnished with friction rollers, at or near its end, to run in grooves in stationary cams in the side of the cylinder. The cross-heads also work in grooves radial to the main that, in guide-arms bolted to the outside of the piston-wheel. By the rotary motion of the Piston-wheel and the action of the cams the inward and outward or radial movement of the Pistons enables them to pass the abutments and return to their operative positions.

Claim.—The combination of the pistons H, boxes I, rods g, cross-heads J, rollers j, cams K i, and springs i, all constructed, arranged, and operating in the manner and for the pur-

poses shown and explained.

No. 34,415.—JOSEPH DODIN, of New York, N. Y.—Improvement in Lamps.—Patent dated Pehrnary 18, 1862.—The burner consists of a single plate of metal, so formed that when bent in proper position the edges are readily fastened together, and the lower end fitted to the

(taim.—The particular shape of the plate of metal combining the mode of locking together

at A, and clasping the tube at m, substantially as described.

No. 34,416.—J. H. DOUGHTY, of Adamsville, Ohio.—Improvement in Churns.—Parent dated February 18, 1862.—As the dasher rises the cream is drawn up through the lower curved channels and the valve opening, and fills the cylinder. On the descent of the dasher the valve closes, and the cream is forced through the small channels above the valve channels. The cream being taken in only at the lower part of the cylinder, the butter collects in a mass at the top, free from further agitation.

Claim.—The combination of the channels i k, formed and arranged as described, when used in connexion with the cylinder G, piston F', and valve J, arranged and operating sub-

stantially as and for the purposes set forth.

No. 34,417.—Thaddeus Fairbanks, of St. Johnsbury, Vt.—Improvement in Platform Scales.—Patent dated February 18, 1862.—The weight on the main scale indicates the number of even pounds, and the excess or fractional parts of a pound or ounces is obtained by the upper and smaller scale and weight. The superior lever is arranged to project towards one corner of the stand, upon which corner is placed a hollow post provided with two arms, one of which supports the knife edges of the scale beam, and the other sustains a staple, into which the lesser arm of the beam is projected.

Claim.—The described application or arrangement of a fractional scale arm H, and a movable counterbalance weight I, relatively to the scale beam, and to operate therewith.

substantially as specified.

Also, the arrangement of the superior lever C and the post F, with respect to the stand or base of the platform of the scale.

No. 34,418.—HENRY FARMER, of Pontiac, Mich.—Improvement in Vegetable and Rost Cutters.—Patent dated February 18, 1862.—The periphery of the cylinder is formed of two pieces of sheet metal; one end of each of these pieces is secured between and near the rins of the heads, and gradually drops towards the axle as it passes round. The ends are at a little distance from each other, and between these ends are hinged and secured adjustable sections, to which knives are attached. The roots are cut by revolving the cylinder.

Claim.—First, the use of the cylinder C, constructed in the manner and for the purpose

set forth.

Second, the employment of the sections E, hinged and provided with knives a a, as and for the purposes specified.

No. 34,419.—ALBERT FULLER, of Cincinnati, Ohio.—Improvement in Faucets.—Patent dated February 18, 1862.—This device is designed to prevent the fluid from coming in contact with the working parts of the faucet, thereby dispensing with grooved joints and packing. A metallic conoidal tube placed within the elastic tube so expands the latter as to fill and press it against the outer cylinder of the faucet, and secures it in place.

Claim.—First, a faucet having an interior elastic tube, by the compression and expansion of which the flow of liquid may be regulated or prevented, substantially as described.

Second, the application of the conoidal tube D to the elastic tube C, for the purpose of securing the latter, substantially as described.

No. 34,420.—O. T. GILMAN, of Washington, D. C.—Improvement in Tools.—Patent dated February 18, 1862.—This device is designed to combine a hammer, pair of pincers, and a wrench in one tool. The handle of the hammer passes through an opening in the claw, which is then pivoted to the hammer. A nut or screwhead may be embraced in the opening between the claw and joint in forming a wrench.

Claim.—The employment of the claw C, in combination with hammer A, for forming three

tools in one, substantially as specified.

No. 34,421.—E. D. Gould, of Lockport, N. Y.—Improvement in Channelling Tools for Harness-makers.—Patent dated February 18, 1862.—Two knives are placed in groves at one end of a piece of wood, and confined by metallic plates. Slots in the knives, through which a set-screw passes into a nut, admit of the knives being adjusted in and out of the sheath. On the other end is a knife set obliquely, for channelling bevelled and round leather work. By being formed in a curve in a recess, the point is made to project more or less by means of an adjusting screw.

Claim.—A channelling tool, constructed substantially as described, with the sliding knife or knives c d, and adjustable spring knife e, operating substantially in the manner set forth. Also, constructing the knife e, with a segmental spring shank, in combination with the

adjusting screw s, substantially as and for the purposes set forth.

No. 34,422.—J. D. GREENE, of U. S. Army.—Improvement in Breech-loading Fire-srat.—Patent dated February 18, 1862.—The plunger or breech plug slides in a chamber formed in the barrel to the rear of the bore. A rod or piston slides freely in the plunger, and has attached to its rear end a hand lever, which passes through and moves in a slot in the plunger, which latter is made to revolve by the lever, the object being a more convenient operation of the parts.

Claim.—The combination of the sliding and revolving plunger or breach plug I with the rod K, when the hand lever L, by which the breach plug is revolved, is attached to the rod.

as set forth.

No. 34,423.—J. J. HIRSCHBUHL, of Louisville, Ky.—Improvement in Military American Box.—Patent dated February 18, 1862.—The separate compartments are arranged within an outer case for carrying the different articles of ammunition by themselves, so as to be really accessible for use.

Claim.—The described ammunition box, having an apartment E for a powder flask and separate boxes B C D attached to one side by hinges, so as to open outward, for the reception of balls, percussion caps, and cartridges, when arranged in the manner and for the purpose described.

No. 3,424.—WILLIAM HODGSON, Jr., of Philadelphia, Pa.—Improvement in the Manufacm of Graduated Glass Measures .- Patent dated February 18, 1862 .- On the inside of mould are cut a series of lines and figures, corresponding with the desired graduations at marks on a glass measure. The mould being properly prepared, the molten glass is sured in, and the conical end of a plug is forced through an opening into the molten glass,

streby compressing the latter into the graduated cuts.

Claim.—The forming of graduated glass measures and the graduations thereon, at one paration, in a press mould, so constructed, marked, and shaped that all vessels made in the me mould will be precisely alike as regards form and capacity, and will have graduations sarranged in respect to that form and capacity that the same accurate measurement may be

mde of all vessels alike, as set forth.

No. 31.425.—M. W. House, of Cleveland, Ohio.—Improvement in Electric Baths.—Patent lated February 18, 1862.—A net-work basket made of some non-conducting material, and esting upon an insulated support, is placed in the tub. On this basket the patient rests. I'wo rods extending along the length of the tub are made to revolve around the basket, and an insulated non-conducted tube traverses each. The wires conducting the electricity pass through holes in these tubes, and thus, in connexion with the revolution of rods, can be conducted to any part of the patient.

Claim.-First, the insulator J, for the support of the basket b, for the purpose described, in combination with the insulated rotating rods f and traversing poles e, when arranged and

operating as and for the purpose specified.

Second, the head plate C, when hinged to the insulator J, in such a manner that the distance between the plate and head of the patient can be increased or diminished, for the purpose of concentrating or diffusing the electrical current through the part exposed to its action.

No. 34,426 .- G. W. HOWARD, of Pontiac, Mich .- Improvement in Oil Tanks .- Patent dated February 18, 1862.—The box being placed upon the water, the oil is poured in at the top, thus displacing the water in the box, the specific gravity of the oil allowing it to rise above the water, and remaining in that position. Buoys or floats are secured to the sides of the box to keep it in a level position.

Claim.—Constructing an oil tank with an open bottom, in combination with buoys or floats, substantially in the manner described, whereby the upper edge of the tank is always kept above the surface of the water, and the tank may readily be floated from place to place,

or use and fall with the tide, as described.

No. 34,427.—EDGAR HUSON, of Ithaca, N. Y.—Improved Method of Raising Carriages.— Puent dated February 18, 1862.—The slide is raised by the lever, which actuates the loop taching in the ratchet teeth. When the lever is pressed against the standard, the loop holds the slide in the desired position.

Claim.—Such a combination of lever loop joints and ratchets for a carriage jack as that, when the weight is raised and the lever pressed down against the standard, the slide is supported and upheld without any fastening by the support of the loop, which falls outside the

oint D.

No. 34,428.—T. A. JENCKES, of Providence, R. I.—Improved Water-Proof Fabric.—Patent heed February 18, 1962.—Cloth or other textile fabric, upon which is fed prepared India-nbber or gum, is made to pass between metallic rollers, thus thoroughly incorporating the ubber with the fabric. Upon the gummed surface of the fabric is then sifted or spread a making of flocks of wool, fur, silk, or other fibrous substance, in such a manner that each bre shall fall as nearly as possible by itself. The whole is then subjected to another power-

ul pressure, so that the parts combine and form integral portions of the compound fabric.

Cleim.—The fabric in which flocks or fibres and India-rubber or other allied gums are combined with cloth or other base by means of pressure, so as to become integral portions of the new napped water-proof fabric, substantially as described, the same being a new manu-

No. 31,429.—G. R. KELSEY, of West Haven, Conn.—Improvement in the Manufacture of Budles.—Patent dated February 18, 1862.—The bow and loop are made of one piece of wire, swaged into proper shape. The ends of the cross-piece are flattened so as to be readily turned upon the sides of the frame. The tongue is also flattened at its inner end and turned on the cross-piece.

Claim.—A buckle in which the bow and loop are made of one piece of wire, when the ends of the cross-bar c are clinched around the opposite parts, a and b, of the bow and loops,

to strengthen the buckles, as described.

No. 34,430.—RHODOLPHUS KINSLEY, of Springfield, Mass.—Improvement in Tompion for Fire-srms.—Patent dated February 18, 1862.—For closing the muzzle of a fire-arm when not in use. The surface of the shank is made concave, so as to give less bearing on the inner surface of the gun, in case of expansion from moisture, and also to facilitate the springing of the

legs. A concavity is formed in the inner side of each leg, in which a spring is securely

fastened, thus distending the legs and securely retaining the tompion.

Claim.—First, a tompion consisting of a wooden pin split in two parts throughout a portion of its length, and having a spring of metal, rubber, or other suitable substance insend between these two parts to force them against the bore of a gun, substantially in the manner and for the purpose described.

Second, forming the pin or shank part of the tompion smaller at the middle than steed

end, for the purpose and in the manner substantially as set forth.

No. 34,431.—A. KLINE, of Philadelphia, Pa.—Improved Match-safe.—Patent dated February 18, 1862.—The lid is designed to be kept closed, when not in use, by means of a spring connected with a bent arm on the inner side of the lid. A pressure of the hand easily open the lid when a match is to be taken out.

Claim.—The match-safe A having its lid B applied and arranged to operate in relation to the same in the modes described and set forth for the purpose specified.

No. 34,432.—I. W. KNAPP, of New York, N. Y.—Improvement in Bakers' Ovens.—Putal dated February 18, 1862.—This improvement is designed to be adapted to the mechanical bake oven for which a patent was granted to H. Ball, September 23, 1856. A flue connects the chimney with a fire-chamber below the oven, and the damper being operated by a chair. is so arranged as to shut off the products of combustion from the ovens when desirable.

Claim.—Combination with the fire-chamber of the mechanical bake oven known as the "reel oven," a flue or passage way, provided with a suitable damper, leading from the firechamber to the chimney, and so arranged with relation to the perforated baking-chamber ontaining the reel and bread-pans as to conduct smoke, gases, &c., (heretofore allowed to put into the baking-chamber,) directly from the fire-chamber to the chimney, substantally described.

No. 34,433.—T. S. LAMBERT, of Peekskill, N. Y.—Improvement in Camp Stores.—Part dated February 18, 1862.—The cylinders are made in sections, so that one can slide into the other when the bolts are removed. A tube on one side is connected with an opening is the lower section to admit of a draught. On the opposite side is a tube which furnishes air to the chamber around the cylinder for heating and a flue to conduct off the smoke.

Claim.—The combination of the sectional cylinders with the draught pipes or fines CDE. constructed as described, and with the smoke-flues and cover, substantially as set forth

No. 34,434.—R. S. LAWRENCE, of Hartford, Conn.—Improvement in Forging Apparatu -Patent dated February 18, 1862.—This invention consists in attaching a small beit and weight to the main drum or to the large belt, so that the latter shall be unwound and silosed to hang loose after it has performed its duty on the drum. Both belts are wound up together. and when the drum is thrown out of gear the belts are immediately unwound by means of the small weight, leaving the main belt hanging free.

Claim.—An auxiliary weight and belt combined with the pulley or drum of a drop or =13 the belt or strap, or other appliance, used to raise the drop-weight for the purpose estimate

No. 34,435.—John Le Ferre, of Charlestown, Mass.—Improved Metal for Sharking, Ships .- Patent dated February 18, 1862 .- The invention is designed to prevent correspond the sheathing, caused by the action of salt water upon plain copper.

Claim.—A sheet of copper or of copper alloy, coated with tin, substantially as set forth.

No. 34,436.—JACOB LONGYEAR, of Grass Lake, Mich.—Improved Boring Mechine.— Patent dated February 18, 1862.—Two parallel bars are placed, one at each side of the frame. on screws passing through the side rails of the frame, and are secured in proper position by jaw-nuts; a carriage is placed upon a guide secured to each bar, and allowed to slide free. back and forth; a bar or adjustable stop is secured to the carriage at right angles with the side pieces, and serves as a gauge or bearing for the stile; the carriage is moved forward towards the bits; the object being to bore a number of holes at one operation, as required in blind stiles to receive the tenons of the slats.

Claim.—The arrangement of the independently-adjustable carriage bars I I, with the car riage L, adjustable stop M, and the series of boring bits H H H, all as shown and described

No. 34,437.—HENRY LYON, of Brooklyn, N. Y.—Improved Cork Sole for Boots and Shoes.—Patent dated February 18, 1862.—Cork being ground or cut into small picces, 15 mixed with gum-elastic dissolved in oil of turpentine or otherwise; this composition is spread upon cloth having a facing of soft gum-elastic; the sole being cut from the cloth is placed inside the boot or shoe, to which it firmly adheres.

Claim.—The improved water-proof cork sole made from fine or granulated cork, as set

forth in this specification.



No. 34,438.—M. M. MACKERLEY, of South Salem, Ohio.—Improved Corn Planter and Lime Spreader Combined.—Patent dated February 18, 1862.—A seed dropper arranged in the ottom of the seed box has a reciprocating motion imparted to it by an eccentric connected with the shaft; the dropper has two receivers moving alternately over the delivery hole for lropping two hills; a manure box is secured to a frame at the rear of the main frame and annected with a valve box, the valves being operated by means of pins on the wheel striking gainst a dog hinged to the bottom of the box; the dropper works between two mould boards if the share. The machine being in operation, the seeds are dropped in the furrow made by

he plough, and covered with fine manure from the box.

Claim — The box F, the plough N, the valve D, the box H, the eccentric Q, the connectingrod c, pins e e, valves I, box J, and dog f, the whole to be constructed and arranged with

respect to each other, substantially in the manner described for the purpose specified.

No. 34,439.—Almeron McKenney, of Maumee, Ohio.—Improvement in Grubbing Madries.—Patent dated February 18, 1862.—The hollow axle has two flanges cast upon it, to which the levers are bolted; it also has projections for the clevis to catch into when the machine is in operation. The wheels are formed of boards bolted tegether with the grain of the wood crossed. The lever is bolted to the axle. A metal ratchet wheel is secured to the inner surface of the wheels; secured to the lever are two ratchet hooks turning readily upon bolts, so as to catch into the teeth of the ratchet wheels. On the upper edge of the lever, near its but, is a metallic plate, to which is secured a jaw by a bolt passing through the lever; a slot in the jaw admits of longitudinal adjustment upon the lever; a clevis, provided with hooks at its ends, catches upon the projections in the axle; in the bow of the clevis are formed teeth for the purpose of taking firm hold of the root or grub. The hooks are prevented from catching into the teeth of the wheels, when desirable, by means of a small rod having a cam at each end, which rod passes through the lever, and is operated by a handle. Claim.—First, the employment of the hollow axle Λ , constructed as specified, and provided with the flanges a a and projections b b, as and for the purpose specified.

Second, the employment of the wheels B B and the hollow lever C, as constructed and used in connexion with the hollow axle A, for the purpose specified.

Third, the combination of the ratchet hooks G G, the ratchet wheels E E, the lever C the bars J J, and counter balance K, constructed and arranged as specified.

Fourth, the metallic jaw e, provided with flanges, and a slot for longitudinal adjustment,

when bolted to the lever as and for the purpose specified.

Fifth, the employment of the clevis, constructed in the manner described and used with the axle provided with lugs, as and for the purpose specified. Sixth, the employment of the bolt i, with eccentrics and handle in connexion with the evers and ratchet hooks, to prevent the wheels from becoming locked too soon, substantially as specified.

No. 34,440.-D. L. MILLER, of Madison, N. J.-Improved Elevating Machine.-Patent dated February 18, 1862.—This machine is designed to be used in clearing new-made land of stones and stumps. The windlass is so arranged as to cause the strain in lifting to be equally divided upon the wheels. The windlass is operated by a worm screw and worm wheel, whereby a continuous motion is given to the windlass. One of the boxes in which the worm screw is journalled is pivoted so that the opposite end of the screw can be raised and disengaged from the worm wheel, for the purpose of allowing the windlass to be operated with greater speed, when it is desired to unwind or wind up the chain preparatory to elevating

the stump or stone.

Claim.—The worm screw K, and manner of arranging the boxes fg of the same, so that it can be easily disengaged from the worm wheel J, in combination therewith, and with the windless L, draught chain i, box frame I, inclined stud G, and brace H, platform A, and longitudinal beams a a' b b', the whole mounted upon wheels and arranged in the manner

and for the purpose set forth.

No. 34,441.—Joseph Miller, of Paris, Ohio.—Improvement in Horse-Rakes.—Patent dated February 18, 1862.—Protuberances are formed upon the head, so as to give the strap a greater purchase. The straps are supported by rollers journalled upon the standard. A spur attached beneath the strap by catching over the roller, when the strap is drawn forward, retains the rake at its working position. The treadles are hinged to the standards, and, in connexion with straps, operate the rake-head. The seat is supported upon standards attached to the standards attached to the axle-tree.

Claim.—First, the arrangement of the protuberances K K', straps or chains ij, rollers M, pur N, and stops L, in connexion with the foot-levers I J, to facilitate the elevation, depres-

sion, and holding down of the rake, as explained.

Second, the combination of the standard G, seat H, and vertical foot-lever I J, the levers being mounted upon the standard G, the latter secured to the axle A, and all arranged in the manner and for the purpose shown and explained.

No. 34,442.—C. R. MOREHOUSE, of Cardington, Ohio.—Improvement in Rat-Traps.— Patent dated February 18, 1862.—A crank rod is attached to bars by staples, against which rod a spring presses, so as to turn it. Over the crank of the rod is a hinged plate, upon which the end of a trigger catches, for holding it down. Two hinged doors are placed on the top of the box, provided with notched bars for catching into the rod. The doors are nade to close by means of coiled springs upon cross-bars, when the hinged plate is loosened by the movements of the rat.

Claim.—First, the arrangement of the rod G, spring d d, plate I, and trigger J, as and for

the purpose specified.

Second, the arrangement of the doors C C, the bars H H, and the rod G, in the manner and for the purpose specified.

No. 33,343.—John Norton, of Rosherville, England.—Improvement in Mode of Splitting Stumps of Trees, Timber, &c.—Patent dated February 18, 1862.—The lower or stiff portion of a paper cartridge is filled with percussion powder. The upper or thinner part of the case is then tied close above the stiff part. A hole being bored in the stump to be split the cartridge is inserted and exploded by a blow imparted in any convenient way.

Claim.—The general system or mode of splitting stumps of trees or large blocks of times

by the use of cartridges of percussion powder, as described.

No. 34,444.—JAMES OLD, of Pittsburg, Pa.—Improvement in Pumps for Deep Well.—Patent dated February 18, 1862.—The object of this invention is to obviate the difficulty caused by gas from the bottom of the well passing through the pump and interfering with 1's action. In the coupling at the top of the hollow piston rod is a cavity in which a light raive works, which closes the top of the pipe forming the piston rod. Through one side of this coupling is an orifice, to which is attached a flexible tube or hose, by means of which is inflammable gas which escapes from the well is conducted away, so as to prevent accidental explosions. Above the check-valve, and at a suitable distance to avoid contact with it is at air vessel which consists of a hollow metallic cylinder, closed at the top and open at the This vessel surrounds the piston rod and leaves sufficient space for the oil of wale. to pass between it and the sides of the tubing, and is designed to contain air enough w operate, by its elastic force, on the columns of the liquid in the well-tube, so as to keep up use upward flow of oil or water on the descent of the plunger of the pump.

Claim.—The use of a hollow piston rod or pipe, extending through the lowest value. well as through the upper valve or plunger of pumps, and furnished with a valve at up of the hollow piston rod or gas pipe, constructed and arranged substantially as described, for the

purpose of allowing of the escape of gas or fixed air from the bottom of deep wells without interfering with the operations of the valves of the pump.

Also, the combination of a hollow piston rod for the plunger of a pump passing through all the valves of the pump cylinder, with a flexible tube and valve at the top of the bolis

piston rod, constructed substantially as and for the purpose described.

Also, the use of a check-valve, seated in the pump chamber directly above and in addition to the ordinary upper and lower pump valves, for the purpose of sustaining and relieving the plunger of the pressure of the column of oil, or other liquid, in the pump tube above the valves, when there is a partial vacuum in the pump chamber on the up-stroke of the plurge.

Also, the use of an air vessel attached to a piston rod of a pump, for the purpose of their ing the too rapid descent of the plunger and of keeping up the upward flow of the common of water, oil, or other liquid, in the pump tube above the valves during the descent of the plunger, substantially as described.

No. 34,445 .- C. H. PACKHARD, of North Bridgewater, Mass. - Improved Clothes-wrings. Patent dated February 18, 1862.—Between the legs of the main frame and the larger arms of the rocker levers, and attached to their lower parts, are two V-shaped springs, so arranged that should a mass of clothes, passing between the rollers, be very thick near one end and there be little or no thickness between the other ends, the upper roller will adjust itself so that all the mass of clothes will adjust itself so that all the mass of clothes will be acted upon.

Claim.—In a wringing machine whose upper elastic roller is supported in a rocker frame, the arrangement of the springs K K, between the feet B B and the arms c c', in combination with so constructing and applying the rocker frame that its upper end or arms ff may both be elevated at the same time, or either of them, as may be desirable, whereby the said springs

and rollers are caused to operate, substantially in the manner as set forth.

No. 34,446.—OSCAR PADDOCK, of Watertown, N. Y.—Improvement in Operating Dampers in Stoves.—Patent dated February 18, 1862.—Valves are pivoted in the vertical pipes at near the lower end of the front pipe, the other intermediately between the branch pipes in the They are operated so as to open and close, by jointed arms and rods the stove. When closed, the valves shut off communication between the rear vertical pipe. They are ing to the front of the stove. vertical pipes and chimney, and when opened, a strong draught is created.

Claim. - In combination with a stove, when the same is provided with two upright provided with the C C', communicating with and sustaining horizontal flues arranged in relation to each other. substantially as described, the arrangement of the valves J J', operating within the said pipes, so as to open and close simultaneously by means of connecting rods, or their equivalents, for the purposes set forth.

No. 34,447.—W. H. PIERCE, of East Cambridge, Mass.—Improvement is Guards for Lanterns.—Patent dated February 18, 1862.—The upper and lower rims are made in two parts, one end lapping on the other. A series of curved wires extend from the upper to the lower rim, each being curved inwardly at their centre. A ring or band is forced down over the wires and fits in the central depressions of the connecting wires, thus holding them firmly together.

Claim.—The band or ring C, as constructed and applied to the ribs c, and made to operate

therewith, substantially in the manner and for the purpose set forth.

No. 34,448.—J. S. Rankin, of Madison, Ind.—Improved School Desk.—Patent dated February 18, 1852.—The desks being framed into a continuous joist, require a less number of legs to support them, thus giving more room and admitting of freer access, and are less easily moved from their position.

Claim.—Building the framework of a series of school desks on a continuous central wooden joist or beam I, running fore and aft, the desks and joists being mutually framed

into each other, substantially as set forth.

No. 34,449.—B. F. SKINNER and A. PLUMMER, Jr., of Mystic Bridge, Conn.—Improvement is Breech-Loading Fire-arms.—Patent dated February 18, 1862.—The breech is of the form of a prism, fitted to fill snugly a recess in the frame, and it is arranged to swing between centres near the right side of the frame and near the bottom of the recess, the axis of said centres being slightly oblique to the axis of the barrel, which causes the front face of the breech to move in a slightly rearward direction relatively to the barrel in the act of opening, and in a forward direction when closing. The device for exploding the priming consists of a needle attached to a sliding bolt, behind which there is placed within the breech a coiled mainspring. From the bottom of the bolt a tooth projects, which works in a slot in the bottom of the breech, and, in connexion with a lower slide and pin operated by a trigger, is made to cock and discharge. The breech may be set up to compensate for wear by acrewing up the back centre screw, which also serves to adjust the face of the breech to the front of the recess and rear end of the barrel.

Claim.—First, the arrangement of the eccentric axis of the swinging breech, in a position oblique to the axis of the bore or barrel, substantially as and for the purpose specified.

Second, the combination of the needle bolt or hammer F, with its spring G, enclosed in the swinging breech B, with the slide J, and trigger h and I, in the frame A, or their equivalents, operating substantially as described.

Third, the employment, for setting up the breech, of a screw D, which also serves as one of two centres on which the breech swings, to open and close, substantially as and for the

purpose specified.

No. 34,450.—R. N. STEWART, of Philadelphia, Pa.—Improvement in Gas Burners—Patent dated February 18, 1862.—An arched warming plate, consisting of a piece of metal, is made to fit closely over the convex end and down along each side of a burner. To this plate is hinged a cap on one side of the burner, and in the recess of the cap is secured a thin piece of metal, in such a manner that as the cap covers the burner the plate shall pass into the cut in the burner to its full extent, for the purpose of keeping the burner clean and free from dust.

Claim.—In combination with the plate B, arranged as described, the hinged cap C and dearing plate D, constructed, combined, and arranged to operate substantially in the manner described and for the purpose specified.

So. 34,451.—A. STOCKWELL and B. D. Humes, of Millbury, Mass.—Improvement is Looms.—Patent dated February 18, 1862.—One end of the slide bar is connected by a link to one arm of a right angular lever whose fulcrum is situated near to the yarn beam, and so that the arm of said lever may rest against the periphery of the yarn on the beam, it being pressed against the same by a spring applied to the lever and its fulcrum. A tension arm is pressed by a spring against the adjacent end of the slide-bar. The end of the yarn beam is provided with a worm gear on which a worm engages. Under and against the worm is a torked lever which spans the upright shaft and operates in conjunction with a tri-armed lever, one arm of which rests on an arm of the forked lever, while another extends over and upon a pin projected from a sword of the lay; the third arm enters a slot in the slide bar. A lever pawl or dog is placed over a rack of teeth in the slide bar, and held up by a rod jointed to it and a pawl lever, which operates to stop the let-off at once.

Claim. First, the lever N, forced by a spring against the yarn on the beam, and con-

nected with the slide-bar L, by a link M.

Second, the tension arm O, operated substantially as set forth.

Third, the slide-bar L, the rocker lever E, with its pawl and ratchet mechanism, the shaft D, the levers K J, the movable worm C, and its gear as applied to the yarn beam.

Fourth, also the combination of the pawl U, and its rack, with the yarn-delivering

Fourth, also the combination of the pawl U, and its rack, with the yam-delivering and taking-up mechanisms, constructed in manner and so as to operate substantially as specified.

No. 34,452.—L. B. TYNG, of Lowell, Mass.—Improvement in Railroad Joints or Chaira—Patent dated February 18, 1862.—The coupling is first formed in two parts, horizontally, which are then welded together. The upright portions form the jaws of the coupling, and are designed to be about double the thickness of the horizontal connexions. Under the lower part is formed a rib for strengthening the coupling, the object being to secure a smooth and easy motion of the cars over the ends of the rails.

Claim.—A rail coupling constructed and consisting of a single piece, embracing the combination of features substantially as set forth, and its combination with railroad rails, that is to say, a stiffening rib o, formed and constructed longitudinally in or upon the base of a rail coupling, composed of a single piece, having a spring bow to clasp the rail base, and jaws to clamp the rail stem and rivet or bolt thereto. It is not intended by this to limit the invention and claim to the particular form and construction of rib represented in the drawing, but to such form or forms and construction of rib as may be most convenient and will produce the same effect. Also, the combination of the rigid jaws, with a spring bow in the aforesaid rail coupling, substantially as set forth.

No. 34,453.—O. C. WASHBURN, of Philadelphia, Pa.—Improved Composition for Making Cal-Cloth.—Patent dated February 18, 1862.—The ingredients forming the coating passers oil sweetmeats, boiled oil, white vitriol, carbonate of ammonia, lamp-black, oil, light daub, and water. The paste is laid on in several coats, varying in the proportion of the ingredients.

Claim.—The new mode of making coating paste for the manufacture of oil-cloths, in all their varieties, by a combination of carbonate of ammonia, white vitriol, boiled oil, and water, substantially as set forth.

No. 34,454.—WILLIAM WEITLING, of New York, N. Y.—Improved Stuck for Butters.—Patent dated February 18, 1862.—The stitch work is composed of three threads, one of which is stitched through the cloth by the sewing machine needle, and another is cared through the opening of the button-hole by the thread-carrier. These threads, in rising again, form loops under the plate, through which loops the shuttle passes the third thread, thus checking both loops on the lower side of the button-hole or edge.

Claim.—A stitchwork for edging and button-holes, this stitchwork being a combnation of three threads, by which combination the one thread, when passing through the cloth loop, checks the other when passing round the edge of the cloth, and both of these being loop-checked on the other side of the cloth by the thread of the shuttle, or its equivlant, as set forth.

No. 34,455.—J. W. WILCOX, of West Roxbury, Mass.—Improved Mode of Principal Corrosion of Steam Boilers, Vats, Tanks, &c.—Patent dated February 18, 1862.—Beween the iron boiler, tank, or vat and other metals negative to iron and communicating with it, amplaced insulating joints fitted with any non-conducting substance, such as rubber packing. The water, before entering such boiler or tank, is caused to pass through a vessel containing zinc or its equivalent in galvanic properties, in such a manner as to be brought in contact with the zinc, so as to be freed from all the copper and other metals negative to iron, held by it in solution in the form of salts, which are an active agent in the destruction of boilers and other iron vessels.

Claim.—First, so purifying the water as it passes from the condenser to the boiler of the steam engine as to free it from all metallic salt destructive to iron, in the manner substantially as described.

Second, the rupture or breaking of any galvanic or electric current that would otherwise exist between the steam boiler and all other connecting steam or water fixtures that may be composed of metals that are electro-negative to iron, substantially in the manner and for the purposes set forth.

No. 34,456.—Hosea Willard, of Vergennes, Vermont.—Improved Clothes Bar.—Patent dated February 18, 1862.—A semicircular bracket is secured against the wall, having stirups cast upon its lower edge for the reception of bars which are pivoted to the stirrups in such a manner that they may be retained in a horizontal position or turned up against the wall when not required for use.

Claim.—The construction of the bracket A, with a projecting shelf D, and stirtupe s substantially as shown and described, in combination with the bars B, whereby the inner ends of the bars B will bear against the shaft D, which will resist the weight placed upon the bars and keep them in a horizontal position, all as set forth.

The arrangement of the bars B, to fold toward and radiate from a common centre, in combination with the bracket A, as shown and described.

No. 34,457.—S. D. WOODBURY, of Lynn, Mass.—Improvement in Camp Stoves.—Patent lated February 18, 1862.—The construction of the stove enables it to be readily taken apart md set up and packed in a small compass for transportation.

Claim.—First, forming the fire chamber of two sections of a conical or other tapering form, that enables one section to be placed within the other, substantially in the manner and

for the purpose described.

Second, forming a sectional stovepipe of tapering pieces, when said tapering pieces are susceptible of being dismembered from each other and from the stove itself, and the parts beld together by the wedging of the pieces themselves when the stovepipe is drawn out or erected, substantially as described.

No. 34,458.—J. W. BROWNE, of New York, N. Y., assignor to J. M. VAN WAGNER, of Summit, N. J.—Improvement in Weather-Strip Moulding.—Patent dated February 18, 1862.— Felt, rubber, or other elastic substance, is so secured to a backing or rigid material as to expose both edges of the felt. The felt side is placed against a fixed part, as the jamb of a door or window-frame, and the felt edge against the moving part, as a sash, door, &c., so as to present a yielding capacity to both contiguous surfaces.

Claim.—The new manufacture of improved weather-strip moulding, substantially as de-

scribed.

No. 34,459.—ELLIOT DICKERMAN, of Middlefield, Conn., assignor to METROPOLITAN Washing Machine Company, of Middletown, Conn.—Improvement in Clothes-toringing Machine.—Patent dated February 18, 1862.—To the outside of the main frame are pivoted brackets. The whole being placed over the edge of the tub, wedges are driven in between the upper parts of the brackets and frame, thus firmly clamping the lower parts upon the tub. The object being to avoid defacing the tub by friction of the lower parts, and to give greater security to the frame of the tub.

Claim.—Constructing the frame of a clothes-wringer in two or more parts, connected together in the manner of a vice or tongs, so as to form a movable jaw, operated at a point of points above the tub or vessel and adapted to clamp the machine upon said tub or vessel,

substantially in the manner set forth.

No. 34,460.—E. S. Bennett, assignor to himself, James Thoubboron, and Lydia Brown, of Brooklyn, N. Y.—Improvement in Locks.—Patent dated February 18, 1862.— The key is formed in two pieces, united by a universal joint, and provided with a hinged key bit which admits of its being thrust into a bent or curved keyhole, and freely turning, forces back the bolt or latch. The object being to prevent the introduction of picks and take keys, and the inspection of the interior of the lock by the use of reflectors.

Claim.—The bent or angular keyhole, formed substantially as shown, in combination with

the divided key shank c, connected by the universal joint f, for the purpose specified.

No. 34,461.—JOHN DILLINGHAN, assignor to JESSE FOLLET, of Turner, Maine.—Improved funder or Sheath for Boots and Shoes.—Patent dated February 18, 1862.—The sheath is so ormed as to cover the upper leather at the toe of the shoe, and extend downwards over the Intersole, passing over on the outside of said sole sufficiently to be fastened by nails. It has

tio a central flange extending back a short distance, between the outer and inner sole. Claim.—First, the connexion or union of the covering, for the upper leather and sole of the too of the boot or shoe, in one entire piece of metal or other substance, as novel, and

berefore an improvement.

Second, also as novel, the peculiar form of the sheath, whereby the covering for the upper and under leather of the shoe or boot is connected by a central flange to support it; therefore not liable to get out of place.

No. 34,462.—H. P. GENGEMBRE, of Tarentum, Pa., assignor to G. W. HOWARD, of Pontiac Mich.—improved Method of Storing Oils.—Patent dated February 18, 1862.—The oils are sored in a tank or vessel having tight sides, but open at the bottom, and placed in a reservoir cistem of water, so that as the oil flows into the tank it will displace the water, which will escape from the bottom of the tank. The oil is conveyed into the tank through a pipe in the cover.

Claim.—The method described of storing oils, in order to prevent leakage from hydrostatic

Also, storing oils in tanks constructed with tight sides, but open at bottom and immersed in water, in order to relieve the sides thereof from hydrostatic pressure, substantially in the manner described.

No. 34,463.—E. J. Hall, of Highgate, assignor to himself and C. P. STIMETS, of Vermont.—Improved Spring Caster.—Patent dated February 18, 1862.—The upper ends of the springs are attached to a plate which rests on a shoulder on the arbor so as to turn freely on the same. The lower ends are attached to a plate which is permanently secured to the bottom of the leg of the piece of furniture, the object being to combine the advantage of the springs with the free turning of the custer.

Claim.—The combination of a roller caster with a spiral spring or springs C, when the latter are suspended to a plate b, resting or bearing loosely on a shoulder or bearing a on the arbor B, to admit of the free rotation of the arbor without affecting the tension of the springs. as set forth.

No. 34,464.—T. S. LAMBERT, assignor to J. S. WRIGHT, of Peekskill, N. Y.—Improvement in the Mode of Constructing Garments .- Patent dated February 18, 1862 .- A pair of pantaloons and vest are connected together and provided with elastic bands at the waist and neck, to hold the garment in place without the use of buttons or buckles.

Claim.—First, the application of the elastic band to retain the garment in its proper posi-

tion at the waist, in the manner set forth.

Second, the application of the elastic band to retain the garment in the proper position at

the neck, in the manner set forth.

Third, the making the garment of such proportions at the waist and neck as are set forth. Fourth, the application of the elastic cords in front in combination with the fly, as set forth. Fifth, the combination of the elastic bands at the neck and waist, and the combination of the elastic bands at the neck, waist, and bottom of the garment, as set forth.

No. 34,465.—CHARLES KIRK, assignor to CHARLES MONSON and STILLMAN MOORE, of New Haven, Conn.—Improvement in Dry Gas-Meters.—Patent dated February 18, 1862.—The double or measuring bellows are so constructed and arranged in connexion with the valves that the outer surfaces of the two rings of the bellows, when alternately filled, will work the valves of the gas ports, so that the induction valve for one spartment of the beliews and the eduction valve of the other will be simultaneously opened, while the other valves will be closed; so that when the required quantity of gas shall have passed into one apartment of the bellows it will be so far expanded that the outer surface working on the extremity of one arm of a bell crank will close the two valves which have been opened and open the opposite two, the two wings of the bellows being connected together by an inflexible cross-bar; one apartment must discharge as the other fills. The same expansion of the bellows will work the index that registers the quantity of gas measured. The valves are opened and closed by a rod, which is rocked by a vertical-weighted bar secured to the rod, and worked by two bellows. cal springs. An additional bellows, which receives the measured gas, is used to obviate any bad effects of increased pressure in the main.

Claim.—First, so constructing and operating a dry gas-meter that the alternate expansion of the two apartments of the double bellows, while it measures the gas, will regulate the opening and closing of the valves, which admit the gas alternately into the apartments to be measured and, after being measured, allow it to pass out for use, when the whole is constructed,

arranged, and fitted for use, substantially as described.

Second, the method of opening and closing the two pairs of valves by means of the valve red i and the helical springs I and m, when they are arranged, connected, and fitted to produce

the result, substantially as described.

Third, the described method of registering the quantity of gas thus measured by the above nate expansion of the two apartments of the double bellows by means of the slide and dog

or hand, substantially as described.

Fourth, the use of the additional bellows N to counteract the varying pressure in the main. when fitted to close its induction valve by its own expansion, and to allow it to be opened by

its own contraction, substantially as described.

No. 34, 466.—THOMAS NEWCOMB, of Kingston, Mass., and C. C. NEWCOMB, of Warres, Me., assignor to THOMAS NEWCOMB, of Kingston, Mass.—Improved Stump and Rock Extractor and Elevator.—Patent dated February 18, 1862.—This machine is designed as an improvement on the patent of C. Bates, April 17, 1860. Two detaching springs, provided with hocks, are suspended from the brake-head at or near its outer extremities, and when in use the said hooks are to be hooked into eyes or staples projecting from the cross-bars, so that while being lifted, each spring draws the next adjacent pawl lever away and out of engagement with the ratchet. A hanger or arm extends from each end of the shaft nearly down to the level of the bottom of the ratchet wheel, and serves to support one end of the chain when a pulley is employed in connexion with the sprocket wheel. The arms keep the chain free from the A suspension hanger is arranged directly over the middle of the sprocket-wheel so that the hanger, the sprocket-wheel, and the centre of gravity of the weight to be lifted, may be in a vertical line.

Claim.—The described improved arrangement of the detaching springs or devices K K, with respect to the pall bars G' H', and the brake I.

Also, the combination of the pulley hangers N N with the sprocket-wheel D, the supporting frame B, and the mechanism for operating the sprocket-wheel.

Also, the arrangement of the hanger or staple a, with respect to the sprocket-wheel and its rotating machinery.

No. 34,467.—HENRY NEWHOUSE, assignor to N. S. BOUTON, of Chicago, Ill.—Improvement in Machine for Cutting Twist Mouldings.—Patent dated February 18, 1862.—The knife-changing ring or wheel has two grooves on either side: a knife holder is attached to the back of the

ring by clamps, but at the same time revolving independently of it. Knife-shifters, connected with the knives, work in grooves in the face and back of the knife-changing ring. directing cylinder is provided with a groove or grooves cut spirally around it for the knife guide to more in. When the lathe has nearly completed a revolution, the knife-shifters are carried to that portion of the wheel where both grooves, uniting in one, are separated by a switch which is kept in place by a spring under it, allowing the shifters to pass through the switch out of the groove in which they were moving, and immediately closing, thereby preventing their return into the same groove. The shifters are placed, one in the outer groove, and the other upon the opposite side in the inner groove, thus alternately changing the position of the knives.

Claim.—First, the grooved wheel A, with the switches, or their equivalents, substantially

≥ described.

Second, the knife-holder B, constructed and operated substantially as described.

Third, the knife-shifters b b, in combination with the knife-holder, used in the manner and for the purpose specified.

Found, the combination of the cylinder C with the spiral grooves thereon, or their equiva-

lents, for directing the knife, substantially as and for the purpose specified.

19 Pith the knife-guide ring D, with its guide d, in combination with the spiral grooves of

cylinder C, as specified.

Sinth the combination of the knife-holder and its adjusting mechanism with the wheel E. and the knife-guiding mechanism, operating automatically as and for the purpose specified.

No. 3,468.—Adam Cot, assignor to Himself and M. S. Clark, of Minetto, N. Y.—Improcess in Camp Stoves.—Patent dated February 18, 1862.—The front, rear, and side plates ereprovided with flat staples which pass through slots in the upper and lower plates, where they are secured by keys. Rods attached by staples to the side plates are placed across to sup-

port the top plate.

Claim.—Making a portable stove in separate plates or sheets, attached together by staples

the boundary and put together, substantially in the manner and

for the purpose described.

No. 34,469.—W. E. PRALL, assignor to Himself, HARRY EASTMAN, and W. A. WITHAM, of Mamerille, Ohio.—Improved Evaporating Pans for Saccharine Juices.—Patent dated February 18, 1862.—The partitions separating the compartments are provided with apertures stemately at the lower part of their end and middle portions, to permit the passage of the sweet stratum of sap, while compelling it to flow in a meandering course. The liquor is conducted alternately through gate-guarded ducts into the side defectors, and when all its mpurities have been precipitated, is decanted successively through gate guarded ducts into the second or boiling pan, placed a little lower than the defecators. Having two settling was, admits of one being decanted, cleansed, and refilled, while the other is settling. Fenders re used to protect from too intense heat the sides of the reservoir and teach or boiler nearest de fire.

Claim.-First, a series of evaporating pans, descending from the front of the furnace to

the chimney, as shown and described.

Second, in the described combination with a descending series of evaporating pans, the rangement of side defecators F F', isolated from the fire, and communicating with the first decond evaporating pans, in the manner and for the objects stated.

Third, the fenders O, when used in the described connexion, with a series of evaporating para descending from the front toward the chimney.

Ro. 31,470.—J. E. WALCOTT, assignor to W. H. BLACKLER, of Boston, Mass.—

Process of Electro-plating Iron and other Metals with Copper.—Patent dated

remany 18, 1862.—The invention consists in the employment of a solution of fused cyanide I praces of great strength, in connexion with a powerful galvanic current, without the use dether sulphate or cyanide of copper, by which means the operation is reduced in cost and distributed of deleterious effect upon the workmen.

Claim.—The process of electro-plating with copper, substantially as described.

30. 34.471.—N. W. WHEELER, of Brooklyn, N. Y., assignor to SIMON STEVENS, of Lanzanz. Pa.—Improvement in Tractor Motive Engines.—Patent dated February 18, 1862.—It. giving wheels are firmly attached to the main driving axle, their peripheries being article to correspond to the surfaces of the rails within the drum. The guide wheels are midd upon the frames at a height equal or nearly so to the centre of the drum, and serve bid the drum in its proper position whilst running. The water tank is placed in and party fills the interior space of the drum. It is supported upon the frame by brackets, and runing through it longitudinally are three tubes for the passage of the shafts of the guide "beek and the main driving shaft.

Claim.—First, the combination of the traction drum A, driving wheels B B, and guide

Their CCCC, substantially as and for the purposes described.

Second, supporting the feed-water tank E within the drum A and upon the frame D D, by coans of the brackets R R, the whole being arranged substantially as described. No. 34,472.—B. T. RABBITT, of Now York, N. Y.—Improvement in the Construction of Ordnance.—Patent dated February 25, 1862.—The object of this invention is to provide for a circulation of water or air through the walls of the cannon, for the purpose of keeping the piece cool when in use, and cooling the casting in the manufacture of the piece.

Claim.—The construction of a piece of ordnance with a passage a winding spirally round

the bore, and within the walls thereof, substantially as and for the purpose specified.

No. 34,473.—N. BADGER, of Shelbyville, Ky.—Improved Digging Machine.—Patent dated February 25, 1862.—The teeth or spades are secured to arms which are attached to the aris or shaft, the latter being bent to form a crank at each end. The arms pass through ecllating guides journalled in the periphery of the cylinder. The cylinder being rotated the teeth are forced out from the cylinder through the guides by the eccentric construction of the main shaft, as they pass under it, and are drawn inward as they ascend, at the front of the cylinder, causing them to penetrate the earth, which is discharged at the back of the cylinder, and they passed they are the pulverience relief. and thrown between the pulverizing rollers in the rear.

Claim.—The combination of the oscillating guide I, arms d, and crank G, with the cylinder F, as and for the purpose shown and described.

Also, the combination with the parts of the pulverizing rollers N P, as shown and described

No. 34,474.—Louis Bail, of New Haven, Conn.—Improvement in Construction of Foundations for Light-houses, Piers, &c.—Patent dated February 25, 1862.—The object of this invation is to obtain a material previously prepared and which may be conveniently transported. and expeditiously put together to form the foundation or structure suitable for sandy bottoms

Claim.—Constructing the foundations and other portions of light-houses, coffer-dams, and other similar structures, of cast-iron segment plates A, provided at the inner or concave see with flanches a a', to receive screw bolts c, for the purpose of securing the plates together b form a cylinder, and then filling the cylinder with concrete, stone, or other suitable material substantially as set forth.

No. 34,475.—J. L. BEERS and SAMUEL LEONARD, of Fayette, Pa.—Improvement in Water wheels.—Patent dated February 25, 1862.—The wheel is provided with a concentric char for about one-fourth of its diameter, more or less, and arranged with reference thereto in sub a manner that the water lying dead in the penstock directly over the wheel shall have to and full effect upon the bucket or solid periphery of the wheel to its entire extent or width

Claim.—The concave chute F, arranged as described, in combination with the superiscumbent penstock C and the wheel A, substantially as and for the purpose set forth.

No. 34,476.—W. H. BLISS, of Newport, R. I.—Improvement in Hose-Coupling.—Patral dated February 25, 1862.—This invention is designed as an improvement on the patent of

Lawton & Bliss, dated February 22, 1859.

A cylindrical pin, having a bevelled or taper inner end, is fitted within a tubular projection which has a screw cut in its outer surface, upon which a nut is fitted and water freely. Within the nut is a cellar formed of two distinct square parts, provided with a farge on the lower edges. Within the external butt, and opposite to the pin above named, is a keep or projecting piece having inclined sides, which tends to press the entering butt against the packing, the butt fitting in a corresponding groove—the whole affording a swivel joint, and securing a firm connexion of the two butts.

Claim.—First, connecting the nut D with the pin F, by means of the divided colar E fitted in the nut and to the pin, substantially as shown and described, when said connexion is used in combination with the pin F and the groove g of butt B, for the purpose specified Second, the lug G within the butt A, when used in connexion with the pin F and the groove g of the butt B, substantially as and for the purpose set forth.

No. 34,477.—J. S. BRIGGS, of South Bend, Ind.—Improvement in Mode of Starting Ares, Cars.—Patent dated February 25, 1862.—Friction drums provided with flanges and secure to the axle are forced against the wheel, causing ropes attached to a cross-beam to be wound on the drum, thus drawing the cross-beam forward and contracting the spiral spring, which assists to stop the car. On starting the car the spring is released, when arms attached to the cross-beam by hinges are made to press their ends upon the track, and by the recoil of the cross-beam by hinges are made to press their ends upon the track, and by the recoil of the cross-beam by hinges are made to press their ends upon the track, and by the recoil of the cross-beam by hinges are made to press their ends upon the track, and by the recoil of the cross-beam by hinges are made to press their ends upon the track, and by the recoil of the cross-beam by hinges are made to press their ends upon the track, and by the recoil of the cross-beam by hinges are made to press their ends upon the track, and by the recoil of the cross-beam by hinges are made to press their ends upon the track, and by the recoil of the cross-beam by hinges are made to press their ends upon the track, and by the recoil of the cross-beam by hinges are made to press their ends upon the track, and by the recoil of the cross-beam by hinges are made to press their ends upon the track, and by the recoil of the cross-beam by hinges are made to press their ends upon the track, and the cross-beam by hinges are made to press their ends upon the track, and the cross-beam by hinges are made to press their ends upon the track, and the cross-beam by hinges are made to press the cross-beam by hinges are made to press the cross-beam by hinges are made to press the cross-beam by hinges are made to press the cross-beam by hinges are made to press the cross-beam by hinges are made to press the cross-beam by hinges are made to press the cross-beam by hinges are made to press the cross-beam by hinges are made to press the cross-beam by hinges are made to press the cross-beam by hinges are made to press the cross-beam by hinges are made to press the cross-beam by hinges are made to be a cross-beam by hinges are made to be a cross-beam by hinges are made to be a cross-be spring serve to push forward and start the car.

Claim.—The application to street cars of friction drums and arms, in combination with spiral springs, for the purpose of acquiring and retaining power in stopping the car, to start

the same again, in the manner described.

No. 34,478.—C. G. CASE and J. M. BAKER, of Battle Creek, Mich.—Improvement is Automatic Machines for Weighing Grain.—Patent dated February 25, 1862.—This invention consists in an arrangement for simultaneously closing the discharge-opening of one box and opening the discharge of another, when the required quantity of gain shall have been received into the box of the latter to counterpoise the weighted scale-beam—the supply of grain to the weigh-boxes, and the discharge of the same, being regulated automatically and wholly by the weight of the grain. Digitized by GOOGIC

Claim.—The combination of the boxes C C', discharge valves E E, arms ff, connecting rod g, with the valve k, passages ij, and spring latches o, when arranged and operating in the manner and for the purpose set forth.

No. 34,479.—H. Cassel and W. F. Semple, of Fredericktown, Ohio.—Improvement in Bellows for Blowpipes.—Patent dated February 25, 1862.—Two receiving chambers, provided with ingress and egress valves, are secured to the under side of a platform, and are caused to be successively depressed and drawn out. The discharge chamber is placed on the upper side of the platform, and receives air from the chambers below. It is made to contract by a spiral spring which forces the air into the discharge opening and conveying tube. The successive depressions of the receiving chambers, to which motion is given by a treadle, causes a constant supply and flow of air through the conveying pipe.

Claim.—The chamber D, acted upon by spring k, in combination with the chambers B

and C and air-conveying tube or pipe I.

No. 34,480.—C. T. CHESTER, of New York, N. Y.—Improvement in Alphabetical Telegraphs.—Patent dated February 25, 1862.—When a current of comparatively feeble power is passed through the wires of the magnet, it gives power enough to attract the armature, cause the lever to turn, and the pallet on the left to release one tooth. When the magnet power is withdrawn, a spring pulls the lever in a reverse direction, and a pallet on the right releases one tooth, thus allowing the indicator to traverse step by step and point successively to the letter on the dial. The transmitting apparatus consists of an arm whose shape allows it to pass over and around the dial without obscuring the letters. This pointer is attached to a hollow shaft with which it revolves. The transmitting part is attached to the hinged lid of the box containing the receiving apparatus. One dial is made to answer both for the receiving and transmitting apparatus, though their functions may be distinct and unconnected by which means ficility is working and case in examining and edicating the parts. meeted, by which means facility in working and ease in examining and adjusting the parts ere gained.

Claim.—First, the use in alphabetical telegraphs of a train of wheels actuating an escape wheel, in connexion with pallets actuated by electro-motive force, when these parts are combined to operate an indicating needle, substantially in the manner set forth.

Second, the handle or pointer, with its hollow shaft, ratchet wheel, toothed wheel, two springs with adjustable points, combined substantially as described, and forming the transmitting apparatus.

Third, the arrangement for combination of these two parts of the complete instrument so that one dial answers for receiving and transmitting apparatus, and the parts may be instantly experated and examined substantially as described.

No. 34,481.—JOHN CHRISTY, of Baltic, Conn.—Improved Smoothing Iron.—Patent dated February 25, 1862.—The object of this invention is to provide a ready means of detaching the handle from the iron, to enable it to be kept cool while the iron is being heated, and also to make one and the same handle answer for a whole set or a number of irons of different

Claim.—The handle E, bar G, gravitating catch i, latch projection j, and legs C D, provided with feet c d, in combination with the oblong mortise B, ledges a b, and iron A, when granged to operate in the manner and for the purpose set forth.

No. 34,422.—C. B. CONANT, of Hardwick, Mass.—Improvement in Lifting Jacks.—Patent dated February 25, 1862.—The hub or boss of polygonal form, being placed on the lower end of the screw, serves to guide the screw and keep it in a central position. snew is elevated or depressed by means of the lever turning the ratchet and nut in one or the The pawl in one ratchet tooth being raised while the other moves.

Claim.—First, the combination with the stand A and screw C of the boss or hub D, caller G, and internal projection a, substantially as and for the purposes set forth.

Second, the combination with the screw C and stand-to of top or hub D, projection a,

mt E, pawl J, guide collar G, holding collar K, and the pawl frame H, substantially as and for the purposes set forth.

No. 34,483.—Cancelled.

No. 34,484.—E. D. Foss, of Maineville, Ohio.—Improved Evaporating Pans for Saccharine Jaiez.—Patent dated February 25, 1862.—The pan is divided into compartments which commanicate with each other by a series of small equidistant ducts near the bottom of each partition, which ducts may be closed separately or simultaneously by means of gates, by which an equable flow of liquor is obtained. By the use of a draught plate the fire may be compelled to come in contact with the bottom of the last boiling pan, or the plate being elevated by a rod or handle, directs the fire more or less away from the said pan, and at the same time permits cool air to descend a tube through the hottest part of the sirup, and to mingle with and cool the heated gases beneath the said compartment. A pipe conducts the liquor from the last or coolest compartment of the first battery to the first or hottest compartment of the second battery.

Claim.—First, the series of small, equidistant apertures H; when used in the described combination with separate lever gates I I I, and all constructed and arranged in the manner

and for the purposes shown and explained.

Second, the arrangement of the draught board M, rod N, and tube O, in the described combination with the last evaporating pan or compartment for the purpose of moderating the best thereto, as explained.

Third, the provision of surface sluices J, constructed as described, for the easy discharge of

scum, in the manner described.

Fourth, the combination of the two batteries A and A', placed side by side, one higher than the other, when in other respects constructed and arranged in the manner shown and described and for the objects stated.

No. 34,485.—J. G. FREDENBURR and J. L. GEORGE, of Columbia, Cal.—Improved Waterwheel.—Patent dated February 25, 1862.—This invention relates to an improvement in undershot wheels. A stationary chute is fitted to the lower part of the wheel, the front part of which extends down and is provided with ledges on each side. Plates on each side of the chur-form guides for the wheels to fit in and for a close joint. A curved bar, the ends of which are secured to the ends of the chute, encompasses the wheel eccentrically, and serves to force inwards the buckets as they leave the back end of the chute, the buckets dropping on the ledges as they pass below the front end of the bar, and are exposed to the action of the water.

Claim.-First, the arrangement of the ledges h and the guide plates i with the sliding

buckets d, chute E, and its enlargement g, as shown and described

Second, the arrangement of the encompassing bar F with the buckets d and the ches

E, as shown and described.

No. 34,486.-J. R. GILL and W. E. PALMER, of Alton, Illinois.-Improved Washing Machine.—Patent dated February 25, 1862.—The two toggles operated by the lever admit a an easy working of the swinging pressure board, which latter presses the clothes against a inclined stationary pressure board. The arrangement of the handle admits of a ready adjastment of the clothes by the operator.

Claim.—The combination and arrangement of the two toggles G I with the handle J. by the swinging pressure board D, stationary inclined board E, and suds box A, substantially as and for the nurses set forth.

as and for the purpose set forth.

No. 34,487.—CHARLES GOLDTHWAIT, of South Weymouth, Mass.—Improved Claim Drying Apparatus.—Patent dated February 25, 1862.—This invention consists in the employment or use of two cranes attached to a dwelling, one at each side of a door or window thereof, the cranes being provided with pins and lines, a connecting rod, and a stay or retaining bar, whereby the lines may be readily adjusted on the pins of the cranes, and the clother readily placed on the lines from the door or window.

Claim.—The two swinging cranes C C, provided with the pins f, and attached to the dwelling A, in connexion with the connecting rod D, lines D', and retaining bar E, all

arranged substantially as and for the purpose set forth.

No. 34,488.—Ashman Hall and John Faulkner, of Dansville, N. Y.—Improvement to Fanning Mills.—Patent dated February 25, 1862.—The claim and engraving explain the nature and object of this invention.

Claim.—Making that portion of the sieves of fanning mill shoes which is exposed to the action of the fan blast concave longitudinally, as shown, for the purposes set forth.

No. 34,489.—H. Hall, J. Hall, T. Hall, and H. Hall, jr., of Philadelphia, Pa-Improvement in Metallic Cases for Pictures, Cards, &c.—Patent dated February 25, 1862.— The cases are made in a mould, consisting of a flat plate having a boss on its upper face. which forms the inside of the mould. The outside consists of four separate pieces secured to the plate by means of pins which act as centres on which the pieces turn, so as to be closed up around the boss to complete the mould and release the frame after it has been case A piece of sheet metal is inserted over the boss, the ends of which project to the extent # which they are to be inserted in the cast metal, when the parts are secured together by the melted metal forming upon the edges of the plate in the mould.

Claim.—The new article of manufacture described, consisting of a metal case, composed of a cast metal frame and sheet metal top and bottom or sides, substantially as set forth.

No. 34,490.—WILLIAM HAMILTON, of West Pittsburg, Pa.—Improvement in Mode of Securing Wheels to Axles.—Patent dated February 25, 1862.—The nut is placed in the groove of the spindle, one piece being first inserted, and the other or others fitted to it. It should be held in place either by attaching the sectional pieces to each other, or to the spindle of the axle, or by confining them so that they shall not spread apart, which may be done in various ways.

Claim.—The use of a nut for securing wheels to axles, composed of two or more sections of a metallic ring, fitting into a groove in the axle in such manner as to fill the entire circumference of the groove, the sections of the nut being united and held in place independently of and detached from the pipe box or hub of the wheel, substantially in the manner and for the purpose described.

No. 34,491.—A. H. Hastings, of New York, N. Y.—Improvement for a Piano.—Patent dated February 25, 1862.—By inclining the scale the hammer may be attached in such a manner as not to attain a vertical position, so that after striking a chord it falls back to its position by its own gravity. The scale is made so as to be readily detached from the body, for convenience of transportation. The hammer is made hollow at its striking end, so that elasticity may be derived from the material of which it is made, without the use of leather or other material.

Claim.—The employment of the scale B, so inclined that the simplest and most effective form of action of the horizontal piano can be used while all the advantages of the upright

piano are obtained, substantially as set forth.

Also, the employment of the hammer C, constructed and used as and for the purpose specified.

No. 31,492.—J. P. A. HAVARD and J. B. BOURGOISE, of Paris, France — Improvement in Potable Filters.—Patent dated February 25, 1862.—The flexible sides of the upper receptacle are retained in a distended form by means of telescopic sliding tubes, the lower section of which is attached to one side of the case, the upper end being provided with a horizontal arm terminating in a hook for holding the bail. A metallic case answers the purpose of support

ing the apparatus when in use, and holding it when packed for transportation.

Claim.—First, a filtering apparatus, consisting of two receptacles B C, formed of flexible water-proof fabric, filtering medium D, and wire gauze or perforated metallic disks c d, when combined and arranged in the manner substantially as described.

Second, the sliding tubes $n \circ p \cdot q$, arm n', and bail m, arranged in combination with receptacle B, to operate substantially as described.

Third, the flexible sides of the receptacles B C, sliding tubes $n \circ p q$, case H, and packing case or bucket I, combined and arranged in the manner and for the purpose set forth.

No. 34,493.—W. H. HAVENS, of Paterson, N. J.—Improvement in Projectiles for Rifted Orderson.—Patent dated February 25, 1862.—The expanding segments, which may be made of brass or other moderately hard metal or alloy, are so formed and arranged together that their exteriors form a cylinder of the same circumference as the exterior body of the shot, and their interiors fit the front portion of the conical part of the body. Tongues are formed on the front end of the segments to enter grooves; and on their rear ends are also tongues entering a ring of lead or other soft metal fitting in a groove. In firing the charge, the cone passes forward into the segments and expands them. The soft metal ring is made to expand radially against the walls to prevent windage.

Claim.—The combination with the conical portion of the part B and the part A of the independent sliding packing segments C C, all arranged and operating as shown and

described.

No. 34,494.—Paul Heilmann, of Mulhouse, French Empire.—Improvement in Machin-Typor Submitting Yarns to the Action of Liquids.—Patented in England October 15, 185%— Patent dated February 25, 1862.—The object of this invention is to submit lengths of yarn or thread, while in motion, to the action of liquid or gaseous bodies, for the purpose of sizing, parties, while in motion, to the section of riquid of gaseous votes, for the purpose of standing, dying, or drying the same, and preparing them for spinning or weaving. The fam or thread is drawn off in cops or bodies, and wound around drums or reels in the form of a helix, or one coil of thread beside the other, (a space being left between each coil,) the drums being given a continuous rotatory motion either in the air or immersed in a bath, whereby the yarn or thread will be exposed to the action of the fluid in which it is rotating.

Claim.—Submitting yarns or threads to the action of gaseous and liquid bodies for the Frend purposes described, by means of a system of reels, operating substantially as set

50. 34,495.—J. N. HAWKINS, of Islip, N. Y.—Improved Clam-Opener.—Patent dated February 25, 1862.—The claim and engraving explain the nature and object of this inver-

Claim.—As an improved article of manufacture, a clam-opening instrument, composed of a base plate A, standard B, with guide arms b b, and a knife C, pivoted to the standard at a, all as shown and described.

No. 34,496.—C. F. HENDEE, of Waterbury, Conn.—Improvement in Hoop Skirts Patent dated February 25, 1862.—The spring and hinge are both perforated, and the clasp indented therein by means of a die.

Claim.—An invention in fastening metal hoops of hoop skirts; the indented metal

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fastening, in combination with a metal hoop of a hoop skirt, provided with a hole to receive the indentation of the fastening, substantially as described, and for the purpose of prevent ing the fastening frame slipping from the hoop, substantially as set forth.

No. 34,497.—A. B. HENDRYX, of Seymour, Conn.—Improvement in Hollow Augers.—Patent dated February 25, 1862.—The cutters have a cylindrical hole in each end, country sunk on their under side. In each of these holes is fitted a flanged eccentric, inserted from the under side, and a screw passed through them from the outside, which also passes into the cutter head, and, when loosened, serves as a pivot for the eccentric to adjust the cutters, and secure them in position when adjusted. The face plate has four radial slots cut in it, in which are fitted to slide, by means of a scroll and disk, four dogs having flanges on their inner and outer sides for preventing longitudinal movement independent of the face plate. A conical or taper pin projects from the inner sides of the dogs, corresponding with a V-shaped scroll. The inner flanges, when clamped by the wedge nut, prevent the dogs and cutter heads from changing their position during the operation of boring.

Claim.—First, the eccentrics i, for adjusting the cutters of a hollow auger, in combination

wi h the screws j, cutter heads f, and dogs a, when arranged to operate substantially as

Second, the combination of the V-shaped scroll g and conical or taper pins e with the inner flange c of the dogs, slotted face plate B, and wedge nut D, when arranged to operate in the manner described.

No. 34,498.—F. Hollen and A. H. Pierce, of Blairsville, Pa.—Improved Scree Wrench.—Patent dated February 25, 1862.—This invention consists in giving to the inner surfaces of two jaws the form of racks, with ratchet teeth pointing in opposite directions, said jaws being connected by means of a hinge joint, and forced together by a suitable spring, in such a manner that a wrench is obtained which can be readily applied to burns or small not of various sizes, and be operated with facility.

Claim.—A burr wrench with two jaws A A', the inner surfaces of which are provided with ratchet teeth b b', and which are united by a hinge joint a, and forced together by a

suitable spring C, in the manner and for the purpose shown and described.

No. 34,499.—John Holmes, of Boston, Mass.—Improvement in Coal-Sifters.—Patent dated February 25, 1862.—The sieve is a shallow bag composed of a series of small metaliz rings connected by links, the edges of which bag are suspended from a ring; across the ring is a bar through which extends a rod attached at its lower end to the centre of the bag; an up and down motion of the rod causes the ashes to be sifted.

Claim.—The flexible sifter, constructed substantially in manner and so as to operate as

specified.

No. 34,500.—NESTOR HOUGHTON, of New York, N. Y.—Improved Spring Bedsteels Patent dated February 25, 1862.—The elastic laths are made thicker at their central parts than at the ends. Head and foot oscillating cross pieces are constructed to receive the ends of the laths in loose mortises in such a manner as to allow the cross pieces to vibrate to correspond with the general line assumed by the laths, which are allowed to accommodate any variation in their lengths between the points of support, caused by their being sprung into or out of direct line.

Claim.-First, the combination and arrangement of the elastic laths, made and constructed as described, with spiral springs, substantially as and for the purpose described.

Second, the combination with the laths 6 6' 6" 6" of the oscillating cross pieces 8, the parts being constructed, arranged, and operating substantially as set forth.

No. 34,501 .- Solomon Hunt, of Danville, Ind .- Improvement in Foot Stores .- Patent dated February 25, 1862.—The nature and object of this invention is fully explained by the claim and engraving

Claim.—The combination of the radiator B, reflectors g h, and foot supports C C, with the lamp D, when operating in the manner substantially as described for the purpose set

forth.

No. 34,502.—WM. Johnson and Henry Davies, of Brooklyn, N. Y.—Improvement in Bakers' Ovens.—Patent dated February 25, 1862.—In connexion with flues beneath the oven, dampers are so arranged and applied that the heat may be passed directly from the first through the oven, or through the flues beneath the oven, and thence through the chimney; or the heat may be passed directly through the oven and returned by the flues; so that the common oven may be adapted to different kinds of baking, and the heat regulated as circumstances may require.

arranged in the manner and for the purposes set forth.

No. 34,503.—GILMAN JOSLIN, of Boston, Mass.—Improvement in Heaters.—Patent dated February 25, 1862.—A bar, rod, or plate of metal is arranged within the outer casing of the furnace in such a manner that the external air admitted thereto shall pass in the direction of the said rod or plate, and in contact therewith, and become heated during the passage. The expansion and contraction of the rod or plate, according to the quantity and temperature of the cold air admitted, is made to open and close a damper that regulates the draught of the

Claim.—First, varying the temperature of the fire just in proportion to the quantity and temperature of the external air supplied to the furnace by means of a rod, plate, or bar, so stranged as to have the air so admitted, keep in contact with it and cause the expansion and contraction of the said rod, plate, or bar, thereby regulating the draught of the fire, as set

Second, in heating apparatus, constructed to operate substantially as set forth, the arrangement of the lever arm, so that it can readily be inserted in or removed from its place by providing said lever with the projections v and w to fit into suitable sockets in the pieces which compose its fulcrum, as described.

No. 34.504.—E. M. JUDD, of New Britain, Conn.—Improvement in Repeating Fire-arms:-Patent dated February 25, 1862.—The loader is composed of an eccentric or cam-like plate, of a widh greater than the diameter of the bore of the fire-arm, having a recess in its periphery for the reception of the cartridge from the magazine. The breech slide is fitted in the frame, and operated to open and close the rear end of the barrel by means of a trigger-guard leves. which works on a fulcrum pin. On the back of the slide is a toothed rack, which operates the leading and cocking devices. By the movement of the slide and the rack and pinion the loader is turned. The foremost cartridge first enters a recess in the loader, when, by withdrawing the trigger-guard lever, the cartridge is caused to enter the chamber of the barrel A second pinion is secured to the loader to effect the cocking of the hammer by the opening movement of the breech slide, which turns a gear and dog in the opposite direction, and causes the tooth of the dog to press back the tooth of the hammer, and thereby throw the hammer to the position of full cock.

Claim.—First, the loader G constructed and applied in combination with the magazine and barrel, as described, and combined with the breach slide C by means of a rack and pinion, to

be operated by the act of opening the slide, substantially as set forth.

Second, combining the hammer by the breech slide C and the loader G by means of a dog k tooth i, and a system of rack and pinion gearing, substantially as and for the purpose specified.

No. 34,505.—W. S. KELLY, of Schenectady, N. Y.—Improvement in Pumps.—Patent dated February 25, 1862.—The annular spider consists of a ring and pronged arm of curved shape, to form stops for ball valves and for clamping screws. The ring being of less depth than the arms, forms a connexion with them at the centre of their depth in such a manner that when the spider is clamped between two surfaces a space exists, both above and below, between said surfaces and ring. A screw clamping plate, having passages cut through it, is let loosely into the piston after the spider and ball valves are introduced therein. The airchamber, with a water-discharging nozzle on its side, is placed over the pump cylinder, and encircles the upper end of the hollow piston rod, which works, air and water tight, up and down in said chamber, a loose, ground stuffing-box connecting the two.

Claim.—First, the combination with the chambers A B of a double-acting pump, of a hollow piston rod G and piston F, the valves g of the piston F being arranged between upper and lower passages d i, and the same set of valves g serving alternately for closing said upper

and lower passages, substantially as and for the purposes described.

Second, the combination of an annular spider H and screw plate I with hollow piston F and bell valves g, substantially as and for the purposes set forth.

Third, constructing the annular spider H with its arms f of greater depth than the depth

d its ring or hollow hub e, substantially as and for the purposes set forth. Fourth, the combination of the base valve box D, having a narrow stop bar a over the centre of each of its valve chambers, with the double-chambered pump A B, hollow piston F,

and piston rod G, substantially in the manner and for the purpose described.

Fifth, The combination of the hollow piston F and hollow piston rod G with a stationary archamber J by a stuffing-box j at the lower end of the chamber J, substantially as and for

the purposes set forth.

No. 34,506.—Gabriel Farner, of Marion, Pa.—Improvement in Apparatus for Bending Thu.—Patent dated February 25, 1862.—The sliding frame and middle roller are so arranged to be elevated and depressed at pleasure by means of a screw passing through a bar of the stationary frame. Thus the relative position of the three rollers is changed so as to bend the tire to fit wheels of different sizes. The scale and index enable the operator to regulate the degree of curvature of the tire.

Claim.—The combination of the middle roller H, the sliding frame, the guides and central screw d with the scale Fig. 1 and index bar c, or its equivalent, substantially as specified.

No. 34,507.—C. T. JUDKINS, of Boston, Mass.—Improvement in Gas Regulators.—Patent dated February 25, 1862.—The edges of the cover to which the valve is attached turn down and fit into a trough containing quicksilver. The gas passes up through the valve opening into the outlet chamber, the cover rising and falling with the curved valve according to the pressure.

Claim.—The combination and arrangement of the valve H with the pivoted or hinged cover E, the lever O, and adjustable balance weight L, substantially as and for the purpose and

objects set forth.

No. 34,508.—Hervey Kent, of Lewiston, Maine.—Improvement in Sliver Guides for Carding Engines.—Patent dated February 25, 1862.—The sliver guide is combined with a circular disk, which is separate from and covers a circular opening in the top plate of a trough, through which runs an endless belt. The under side of the disk and edge of the opening are provided with teeth meshing into each other. By turning the circular disk around while covering the opening of the top plate the sliver passage or guide may be moved in a circular or curved path and be adjusted widthwise of the carrier, so as to cause a sliver, while being led through the guide, to be deposited on such part of the carrier as it may be desirable to have it laid.

Claim.—The application of the sliver guide or hole A to a carrier G, or its trough, by means of a circular plate B, or its equivalent, so as to be capable of being moved across the said carrier or trough, as the case may be, in a circular or curved path, substantially as and for

the purpose of attaining results as set forth.

Also, the combination of the circular ranges of teeth b b b c c c, or their mechanical equiva-lents, with the guide plate B and the trough thereof, the same being arranged for the purpose

and to operate substantially as specified.

No. 34,509.—EDMUND LOCKWOOD, of Ulster, Pa.—Improved Shot-hole Stopper.—Patent dated February 25, 1862.—A metal cap is provided with a flange having an elastic substance attached to its face, to cover the outside of shot-holes, and so that it will conform to the side of the vessel. To the centre of the cap is made fast a spindle extending to the inside of the vessel, the spindle having a cross-bar attached, by means of which, in connexion with a screw, the cap is drawn up and secured.

Claim.—A shot plug, consisting of a metallic plate or disk, the outside of which is convex. the inside lined with an elastic covering, having a spindle with bearded side springs, and a screw at its end, with a cross-bar in which the end screw is inserted; the parts being constructed and arranged relatively to each other substantially as and for the purposes specified

No. 34,510.—Samuel Loring, of Duxbury, Mass.—Improvement in Machine for Leathering Tacks.—Patent dated February 25, 1862.—The tack carrier or conveyer is a deeply cut, perpendicular threaded screw, into which the tack is introduced, and by the advancing edge of its first thread is held between two of the threads, with its head supported by a slotted bar, by which it is prevented from being carried around by the conveyer, which latter as it revolves, causes the tack to move to the opposite end of the slotted bar, where it is seized by a spring that presses it up against the last thread of the conveyer. The tack being released, falls into a box, the head passing through an opening, and beneath the arms of the nippers. The nippers carry the tack beneath the punch, which, in descending, cuts out a piece of leather and forces it upon the tack over its point.

Claim.—The spiral conveyer I, in combination with the slotted bar M, or its equivalent for the purpose of separating and conveying the tacks, as set forth.

Second, the spring b, in combination with the cam g, for the purpose of carrying the tack round to the nippers, as set forth.

Third, the box h, in combination with the nippers, operating as set forth, for the purpose described.

Fourth, the punch C2, so constructed as to cut out the leather and force it down upon the tack, as set forth.

No. 34,511.-F. X. MANAHAN, of Utica, N. Y.-Improvement in Cheese Vats.-Patent dated February 25, 1862.—The longitudinal pipe in the water-box is of flat form and performance of the control rated at its sides, and is connected with the boiler by a pipe which is provided with a threway cock, by which the water may be shut off from the perforated pipe and conducted into the smaller water-box. Another pipe provided with a cock connects the larger water-box with the under side of the boiler. The curd and whey being separated in the vat, the supply of water is shut off from the main box, whence it is made to pass into the smaller box, where after being more highly heated, it is used for scalding the larger box. The method of securing the cock to the milk-vat by a pipe and screw socket is designed to prevent any leakage between the vat and box, and at the same time admit of the vat being readily moved from the box.

Claim -First, the perforated pipe M, placed longitudinally at the bottom of the box A and communicating with the pipe K, substantially as shown, for the purpose of equally

distributing the ascending hot water from the boiler I, as set forth.

Second, the arrangement of the pipes KK', cocks hh', and pipes OL, with the boiler I, water-boxes A C, and milk-vat E, as shown and described.

Third, securing the cock F to the milk-vat E, through the medium of the pipe G and screw-socket H, arranged substantially as shown and described.

No. 34,512.—WILLIAM MASON, of Providence, B. I.—Improvement in Connecting and Disconnecting Shafting.—Patent dated February 25, 1862.—One part of the coupling consists of a disk or plate with two or more wedge-shaped segments fitted to slide radially between ribs cast on the face of the disk, and held in their places laterally by caps riveted to the face of the disk, and held in their places laterally by caps riveted to the ribs, said caps being connected to a sleeve on the hub of the disk by means of signstable arms and joints. The sleeve has a groove to receive a shipper fork attached to a lever. The sleeve and wedge segment are so arranged, relatively, that when the sleeve is moved towards the disk the segments are forced outward and into a groove of the same angle and circle in the opposite part, thereby producing the necessary friction for driving the shafts. A revene movement of the sleeve disconnects the shafting.

Claim.—First, the two rims united, A, or equivalent, forming the V-shaped recess, when used in combination with the wedge segments C C and toggls-jointed connexions as described

substantially as specified.

second, the wedge segments C C, when used in combination with the arms, disk, and deere, as described, for the purposes set forth.

Lastr, the application of the above-described mechanism to shafting, gears, or other

wheels rotating upon the shaft, for a friction coupling, substantially as specified.

No. 34,513.—W. M. MASON, of Polo, Ill.—Improvement in Machines for Stacking Hay.-Patent dated February 25, 1862.—To the upper part of a standard is secured a swinging came, from the arm of which, by means of a rope and pulleys, is suspended a fork, which by means of toggles and teeth, is made to clasp and hold a quantity of hay, &c. By pulling a rope attached to the fork the teeth are caused to distend, and the hay is dropped.

Claim.—The combination of the toggles I, pulleys I m, and rope J with the fork H, constructed as described, in the manner and for the purpose shown and set forth.

No. 34,514.—IRA McDaniel, of Salem, Iowa.—Improved Washing Machine.—Patent dated February 25, 1862.—The lower section of the washboards is corrugated, and rests on four rollers. A forward and backward movement is given to it by means of the crank, shafk and attachments.

Clsim.—The application of the crank C and shaft D to the lower section of the washboard A, giving it the vibratory motion in the rectangular tub B, all arranged and operated substantially as and for the purpose specified.

No. 34,515.—E. B. McCoy, of Winsted, Conn.—Improved Roller Press for Photographs, 4c.—Patent dated February 25, 1862.—The reciprocating bed rests upon two rollers, guides on the under side of the bed fitting in grooves on the rollers. A semicircular frame bears apon the journals of a roller which rests upon the reciprocating bed. Upon one of the journals als of two rollers, which projects beyond the frame, is secured a wheel, by rotating which, the article to be pressed on the bed, is made to pass backward and forward under the roller, Claim.—The combination of the reciprocating bed C, roller F, and frame E, when arranged

substantially as and for the purpose set forth.

No. 34,516.—Nelson McCuen, of South Potsdam, N. Y.—Improvement in Harrows.—Patent dated February 25, 1862.—The height of the evener is designed to be regulated according to the nature of the soil, and thus maintain the proper line of draught between the shoulders of the drawing animals and the evener. By arranging the frame which receives the teeth, with obtuse angles, no two of the teeth follow in the same track.

Claim.—A drag having the evener E supported upon adjustable rollers, and having the ban a bent at obtuse angles to the bars B, the teeth being arranged to said bars as set forth,

and the whole constructed otherwise as shown and described.

No. 34,517.—J. VAUGHN MERRICK, of Philadelphia, Pa.—Improved Slide-valves for Same Engines.—Patent dated February 25, 1862.—Through the sliding-valve pass two Openings, each of which is of the same length, and of the same, or nearly the same, width as one of the steam-ports. A central opening situated midway between the above-mentioned openings also passes directly through the valve. An equilibrium or balancing-plate, provided with projections at opposite ends, bears on the upper surface of the sliding-valve, and maintains the latter in its proper longitudinal position. Within the balancing-plate are formed two chambers, and midway between the latter a central chamber, the two former terminating in two ports, and the latter having an opening directly opposite to the exhaust port in the face of the cylinder.

Claim.—A slide-valve and balancing-plate, in combination with a double-ported cylinder face, when the said valve is provided with such openings, and the said balancing-plate with such chambers and ports, as to permit the steam to pass to and from the cylinder, substantially

m the manner set forth.

No. 34,518.—O. E. MILES, of Aurora, Ill.—Improvement in Construction of Wheeled Patieles.—Patent dated February 25, 1862.—The wheels are secured to conical arms, the larger ends of the arms being fitted in boxes placed in cast-iron frames, which are prevented from amy lateral motion, being braced by steel rods connected by bolts to the bolster. The journals of the inner ends of the arms have their bearings cast in two equal parts, which, by means of trunnions, rest upon the ends of a cast-iron frame. Resting upon the trunnions are levers

which keep the trunnions in proper position on the frame.

Claim.—The arms C C, having the wheels B B permanently attached to them, and their immer journals fitted in boxes F, suspended on trunnions l, and their outer journals fitted in boxes D, placed in frames E, attached to the bolster, when said parts are used in combination with the rods f, arranged substantially as shown for bracing the frames E, and with the frame m, in which the trunnions I are placed, and also with the levers r r, arranged substantially

as shown, for securing the trunnions I on frame m, as and for the purpose set forth.

No. 34,519.—JEHIEL MUNSON, of Burlington, Vt., and J. R. LYON, of Shelburne, Vt. Emprovement in Potate-Diggers .- Patent dated February 25, 1862. - The perforated flanges are secured to the upper edges of the wings. The rods pass from the frame above into holes in these flanges, and may be adjusted to a greater or less distance apart. The upper ends of the rods are bent over on the frame and held in position by a clasp passing over them, and secured by a bolt or key.

Claim.—The arrangement of the adjustable separating rods F, in combination with the perforated flange or lip 41, the perforated frame D, and separator clasp E, substantially in the manner and for the purpose specified.

No. 34,520.—DAVID O'FLANAGAN, of Charlestown, Mass.—Improved Fruit Strainer-Patent dated February 25, 1862.—A cylindrical box is provided with a concave perforated bottom which serves as a sieve, and over which rotates a stirrer having a curved blade corresponding to the curvature of the bottom. The stirrer is attached to a frame hung to an subor, to which a rotary motion is given by means of gear-wheels and a crank.

Claim.—The box A, provided with a concave perforated bottom a, in combination with the

curved rotating bar, or stirrer, E, when suspended from the cover B, and constructed,

sarranged, and operated as and for the purpose set forth.

No. 34,521.-W. J. PALMER, of Flushing, N. Y.-Improvement in Lamps, &c.-Patent dated February 25, 1862.—An air or draught chamber perforated with holes is attached to the top of the cap. The interior of the cap forms a chamber in which the vapor or gas in the upper part of the lamp is designed to be condensed as it ascends, thereby preventing explosions, and also preventing the escape of the vapor or gas from the lamp and consequent waste of oil.

Claim. The combination with the cold air or draught chamber C, of the dome-shaped gascondensing channel c, as and for the purpose shown and described.

No. 34,522.—Cancelled.

No. 34,523.—Joseph Reichman and Heinrich Kriete, of Chicago, Ill.—Improced Governor Valve.—Patent dated February 25, 1862.—The specification describes an arrangement of devices, by means of which the steam from the boiler and that from the cylinder of the engine are permitted to act against each other upon a piston or its equivalent; any difference between the pressure of the two, regulating the quantity of steam admitted to the cylinder of the engine, to operate the same with equal speed. Also an arrangement for counterbalancing the piston, upon which the boiler steam and that of the cylinder act against each other.

Claim. - First, the use of the steam of the boiler and that of the engine acting against each

other, to operate the governor valve, or its equivalent, of a steam engine.

Second, the peculiar construction and combination of the whole governor, as described.

No. 34,524. - JOHN REVERE, of Boston, Mass. - Improvement in Preparing Metallic Moulds for Casting Metals.—Antedated November 22, 1861.—The inner surface of the mould, after being roughly annealed, is washed with a hydrated solution of pulverized clay and wood ashes until the pores of the iron are completely filled and a coating formed which shall prevent any contact of the metallic surface with the metallic bronze. Over said coating, and while the mould is in a warm state, is next applied a coating of lampblack dissolved in spirits of turpentine or alcohol; or instead thereof a liquid resinous substance may be used.

Claim.—In preparing a metallic mould for casting ordnance or articles of bronze, not only heating the mould so as to anneal it and burn and oxidize its inner surface, but in afterwards applying to the said surface the earthy wash and to the latter a resinous coating, substan-

tially as specified.

No. 34,525.—R. A. RILEY, of Greenfield, Ind.—Improved Mode of Preventing Jarring and Joling Railroad Cars and Locomotives.—Patent dated February 25, 1862.—A short rail is placed upon the chair on the inside of the track, breaking or lapping the head-joint of the rails, the face of said rail being below that of the main rail to the extent of the width of the flange of the car wheel. Frogs and switches are similarly provided with hearing surfaces for the edge of the flange.

Claim.—The faced flange on the car wheels of uniform depth; the low rail on the clair on the inside of the track lapping the head-joints of the rails to support the car on the flange of the wheel while passing over the same; the face on the frog and the face on the switch to receive and support the car on the flange of the wheels while passing over the head-joints and open spaces thereon; and all these in combination fitted and adapted to each other, by which all open spaces in the track of railroads are practically closed, and the even plane of the cars in motion upon the track at all points maintained.

No. 34,526.—Thomas Rogers, of Montgomery Square, Pa.—Improvement in Liquid Massures.—Patent dated February 25, 1862.—Within the measure is a tightly packed piston, to which is secured one end of a rod, which projects downwards through an opening in the To the upper edge of the measure is hinged a cap or cover, provided bottom of the measure. with a tube, through which the liquid is forced when the measure is inverted; the object being to discharge from the measure all the sirup, a part of which is apt to adhere to the sides of the vessel.

Claim.—The measure A, with its piston G, and the movable cap D, with its tube c, the whole being constructed and arranged substantially as and for the purpose set forth.

No. 34,527.—DANIEL SAGER, of Albany, N. Y.—Improvement in Self-acting Brakes for Wheel Vehicles.—Patent dated February 25, 1862.—The curved links are at the forked ends of two metal plates, between which the rear end of the draught pole is fitted. Two levers are secured to the under side of the hounds by fulcrum pins passing through oblong slots in the leven, thus admitting of a longitudinal movement of the levers. The brake blocks are applied to the wheels by the forward movement of the vehicle in descending hills. A forward movement of the draught pole again releases the brakes.

Claim.—The combination of the curved links C C with the pole A and levers D, as shown and described. The arrangement of the levers D D to slide longitudinally as well as turn

circularly upon the axis pin, as shown and described.

No. 34,528.—Andrew Sawyer and Henry Barnes, of Burlington, Wis.—Improvement is Californ. - Patent dated February 25, 1862. - The teeth or shares are attached to a frame provided with guide rods that are fitted on the axle, the frame being attached by chains to

segments secured to a rock shaft, and so arranged as to be operated by the attendant.

Claim.—The arrangement of the pendu'ous suspended frame C, attached draught pole F, where E, rods D, and chains D' D', with the segments K K, rock shaft I, and lever J, in the

manner shown and described.

No. 34,529.—E. S. SCRIPTURE, of New York, N. Y.—Improvement in Oil Cans.—Patent dated February 25, 1862.—A spring, supported in rests attached to the protecting ring, extends across the bottom of the can. Through the ring passes a screw, which, in connexion with a nib, operates the bottom of the can, the degree of tension regulating the amount of al and distance it is to be thrown.

Claim.—First, the use or employment of the protecting ring C, provided with the spring

rests D D. arranged and operating as shown for the purpose specified.

Second, the bottom B, regulating screw H, and spring F, supported upon the rests D D, or their equivalents, when the same shall be combined and operated in the manner and for the purpose specified.

No. 34,530.—Melvin Shaw, of Abington, Mass.—Improved Composition for Dressing Leather.—Patent dated February 25, 1862.—This composition consists of extract of logwood, borax, gum shellac, bichromate of potash, and spirits of ammonia, each ingredient requiring

**Deparate process of preparing before compounding.

Claim.—A dressing for leather, consisting of an alkaline solution of shellac, in combina-

son with a solution of logwood.

No. 34,531.—S. J. SHERMAN, of Brooklyn, N. Y.—Improvement in Springs for Ladies' Draws.—Patent dated February 25, 1862.—The end of the steel spring is provided with a curred piece of soft metal, previously formed in suitable dies, the metal being firmly secured to the steel by being compressed between dies adapted to spread the end of a tubular projec-tion through the hole in the spring, and flatten the sides of the curved metal; the object being to obviate the bad effects of the sharp edges of steel coming in contact with the fibrous material by which it is confined.

Claim.—A spring or busk for clothing, having the ends covered by a soft metal, applied and secured substantially in the manner specified and for the purposes set forth.

No. 34,532 .- D. H. SHIRLEY, of Boston, Mass .- Improved Railroad Switch .- Patent dated February 25, 1862.—The switch is formed of a plate of metal having a groove or slot on its under side conforming in its cross section, or nearly so, to the cross section of a rail. Upon its upper surface is an inclined way with a lip for guiding the flanges of the car wheel passing over the switch. The object of the device is to provide a temporary means for running the car from and upon the track in case of obstructions.

Claim.—A portable switch having as its essential elements a curved inclined way or groove, in combination with a suitable locking or clutching device for securely holding the switch firmly upon the rail, substantially as described.

No. 34,533.—S. J. TAYLOR, of Rome, N. Y.—Improved Convertible Straw Cutter and Core Sheller.—Patent dated February 25, 1962.—The conically shaped drum and the spiral ribs are so constructed and arranged as to admit of the attachment of the spiral knives when used for a straw cutter, and of the spirally ribbed feed-plates when required for a com sheller; the one being removed while the other is in operation.

Claim.—The bed piece B, gear wheel D, pinion F, spiral ribs b, and drum A, combined, arranged, and adapted for the attachment of the spirally-ribbed feed-plates j, or spiral knives

G, all as and for the purposes substantially as described.

No. 34,534.—W. H. VAN GIRSON, of New York, N. Y.—Improvement is Neils for Sheeting.—Patent dated February 25, 1862.—The grooves in the nail are designed to give a greater external surface to the shank than the cylindrical form, by which a stronger hold in the wool and a more ready penetration are attained.

Claim.—A sheathing nail made with converging flanges and with grooves between the flanges, said flanges converging at the point of the nail and the grooves terminating a short

distance below the head, as shown and described.

No. 34,535.—DAVID WALKER, of Newark, N. J.—Improved Self-rocking Cradle.—Paint dated February 25, 1862.—The balanced pallets are provided with relief guides or gange. in one direction, and allow them to rise out of contact with those teeth when moving in the which guide the pallets into the teeth of the escapement wheel when the pallets are move opposite direction, to prevent injury when the power of the spring becomes exhausted at the motion of the wheel slackens. The fan is put in motion by means of cords attached at one end to a cross lever on the bar holding the fan, and being crossed, their outer ends attached to opposite sides of the cradle. Stops on the cradle and frame prevent the cradle. from swinging too far on either side.

Claim.—First, the construction and arrangement, substantially as described, of the mid ruides c, in combination with pallets a and escapement wheel b, in the manner set forth and for the purpose specified, when used in a self-rocking cradle, constructed as described.

Second, in combination with a self-rocking cradle, constructed as described, the stops and h, constructed and arranged as and for the purpose described.

Third, in combination with a self-rocking cradle, constructed as described, the automatic fan k n m r, constructed and arranged as described and shown, and operated by the more ment of the cradle in the manner specified.

No. 34,536.—G. W. WALKER, of Boston, Mass.—Improvement in Stiding Grates.—Puts dated February 25, 1862.—A dog or stop is hinged to an ear on the upper surface and new the front of the frame; the dog has a projection which extends below the front part of the frame to arrest the grate when the latter is pulled forward. By raising the dog the grate my be drawn entirely out of the frame.

Claim.—The arrangement and combination of the movable dog C, with the sliding grant

and its supporting frame B, the whole being to operate together as specified.

No. 34,537 .-- J. H. WALKER, of Worcester, Mass .- Improved Machine for Pricing Leather. - Patent dated February 25, 1862. - The holding and pricking plates have a revice motion to and from each other in guide projections secured above and below the table upon which the leather is placed; the lower plate being provided with a series of sharp point as its upper edge, and the upper plate with a corresponding series of holes. By means of a system of levers and springs operated by a foot lever, the two plates are drawn together, bold the leather, and perforate it, the springs serving to withdraw the plates on freeing the took

Claim.—First, the combination of the holding plate F, and pricking plate F', with table C, and its dovetailed guide, stands, or projections E E E' E', as and for the purposes set forth. Second, the combination and arrangement of plates F F', and tables A C, with forked levers H J and springs G G', substantially as set forth.

Third, the combination in the same machine of a perforated stationary table, having a holding plate above and a pricking plate below, with mechanism so combined with said plates that leather placed on the table and under the holding plate can be held by the upper plate while it is pricked by the points or awls in the lower plate, by simply depressing a foot level. substantially as set forth.

-W. F. WARBURTON, of Philadelphia, Pa.—Improvement in Military Hets. Patent dated February 25, 1862.—The rear half of the sweat band is disconnected from the front half, so that the former can be drawn forward from the body of the cap. The cape is secured between the rear part of the sweat band and the body of the hat, so that when not in

use it may be packed and secured in the hat, and allowed to fall readily when desirable.

Claim.—The cape or curtain D and movable sweat band C, when so combined and arranged that the sweat band shall serve to retain the cape in an elevated position, and when moved

shall permit the cape to fall, as set forth, for the purpose specified.

No. 34,539.—H. H. WARDEN, of New York, N. Y.—Improved Ship's Armor Plates. atent dated February 25, 1862.—The frame is made in rectangular form of cast-iron or steel, the web or lattice work of wrought-iron imbedded in is when it is cast. The object of this rention is to obtain plates of cast-iron for covering ships-of-war, which, while they are able to fracture like other cast-iron plates, do not fall off and leave a bare spot on the side

Claim.—An armor plate for ships composed of a wrought-iron frame imbedded within a

ast-iron body, substantially as shown and described.

No. 34,540.—EMANUEL WASSENICH, of Cincinnati, Ohio.—Improvement in Portable bens.—Patent dated February 25, 1862.—The oven is to be covered with earth: the peculiar hape and construction being designed to give strength and secure equality of radiation, as rell as facility for setting up and taking apart for transportation.

Claim.—Constructing a portable army oven A, of boiler iron, of the shape described, viz: emi-elliptically prismoidal, with arched ends a a, and strengthened by ribs B B, connecting

nooks H, and beams C C, substantially as and for the purpose set forth.

No. 34.541.—JOHN WELDY, of Dayton, Ohio.—Improved Machine for Sawing Wood.— Patent dand February 25, 1862.—The saw beam is connected with the rock shaft by means of perpendicular links vibrating on an arm which is attached to links upon the rock shaft and its lever. By drawing back the lever of the rock shaft, which may be retained in position by a latch, the saw is raised so that the wood to be sawed may be placed on the carriage. On the same the rock shaft lever, the saw comes down upon the wood, ready for operation. The pright links are kept in position by a fixed bar over which they traverse.

Claim.—The combination and arrangement of the rock shaft G, arm H, links h h, and saw

cam J, constructed to operate substantially as described, for the purpose set forth.

Also, in combination with the links which support the saw beam, the guide bar i, substan by as described, for the purpose set forth.

No. 34,542.—Anthony Werne, of Pittston, Pa.—Improved Apparatus for Making Vinegar Itle Quick Process.—Patent dated February 25, 1862.—Upon the acetifying vat is fitted a 16 having an air-tight, removable cover. In the bottom of the tub are fitted tubes extending nearly the top of the tub for the purpose of conducting off the gases and vapors from the lower at. Over the tubes is placed a shield which prevents the liquid from entering the said tubes addistributes the liquor, which is poured in at the top and passes through perforations in the dom of the tub. A perforated elbow-shaped tube, closed at the top and leading to the out-de of the vat, is placed in the centre of the vat. By removing the stopper at the outer end this tube, external air is admitted, when it is desirable to reduce the temperature of the vat. rapors, gas, and air in the vat are conducted to a condenser by a pipe leading from the top the tub.

Chim.—The employment of the distributing shield C, in combination with the tubes b and is B, as and for the purpose shown and described.

Also, having the bottom of the tub B provided with small tubes a, as and for the purpose own and described.

A.50, the tube H, arranged and operating with the generator A, as shown and described. Also, the combination with the generator of the condenser J, constructed substantially as .00Th, and tube I, as and for the purpose shown and described.

No. 34,543.—W. H. WHITE, of Dubuque, Iowa.—Improved Roofing.—Patent dated Feb-lary 25, 1862.—The composition is secured to the roof by means of strips of wood or other aterial bevelled inwardly and fastened to the sheathing; the composition being put on in a state, works under the bevelled edges of the said strips, and forms, as it were, a dovo-- ed joint.

Com.—First, the roof, constructed of the materials, and in the manner. substantially as

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word, the dovetail fastening, as described, for the purpose set forth.

Taid, the combination of common salt, sand, coal, coal tar, and coal ashes, to form a roof, the manner specified.

No. 34.544.—THOMAS WILSON, of Silver Creek, Ill.—Improvement in Running Gear of Calrod Cars.—Patent dated February 25, 1862.—The connecting rods contain the tension The stand cross each other, the object being to insure a steady motion without jarring, by the ping the trucks in constant communication, the movement of one being transferred to the iler.

Claim.—The employment of tension springs between the trucks and their connecting rods, combination with independent wheels, substantially as shown and described.

No. 31,545.—S. S. BARTLETT, of Providence, R. I., assignor to T. H. Dodge, of Wash-on, D. C.—Improvement in Harvesters.—Patent dated February 25, 1862.—The claims charavings explain the nature and object of this invention.

Claim.—First, supporting the rear end of a drag bar, arranged to run on the ground at the Digitized by GOOGLE side of the machine, with its rear end free to rise and fall, by means of an adjustable arm or lever, whose front end is supported by the axle or journal of the main wheels and on the outside of the inner wheel, substantially as described.

Second, the combination with the inner end of the axle or journal of the main supporter. wheels of a grass harvester, of an elevating arm or lever, whereby the rear end of its hinge drag bar can be raised and lowered together with the heel of the finger-beam by the driver from his seat on the machine, while the elevating arm or lever has a firm support, in le pendent of the frame, substantially as described.

Third, the combination of the drag bar and compound lever arrangement with the war frame and finger-beam of the machine, substantially as and for the purposes set forth.

No. 34,546.—Frederick Chandler, of Charlestown, Mass., assignor to Himself at C. A. COUSENS, of Newton, Mass.—Improvement in Camp Stores.—Patent dated February 25, 1862.—The pipe is constructed of a series of tubes, provided with lips fitting upon the upper and lower edges, and placed one within another, so that they will readily slip upper each other, and yet firmly hold together when set up, and when not in use be enclosed with the stove.

Claim.—First, forming a sectional stove-pipe in such a manner that the sectional piece. whether straight or tapering, shall be held together and to the stove by flanges or other positive mechanical devices, to prevent their dismemberment from each other or from the

Second, so combining a sectional stove-pipe, constructed in the manner described, with stove, as to permit the said sectional stove-pipe to be packed and enclosed by the stove se described.

No. 34,547.—J. F. DRUMMOND, assignor to C. T. REYNOLDS, F. W. DEVOE, and CHARLE PRATT, of New York, N. Y.—Improvement in Packing Cans for Transportation.—Paker dated February 25, 1862.—The cans, which are cylindrical in form, are placed within a but the bottom of which is provided with a series of circular recesses fitting the bottoms of the cans. Corresponding recesses of suitable size are made in the lid of the box. closed and fastened, the cans are held securely in position by the recesses.

Claim.—The method of preventing the indentation, leakage, and weakening of paint care

shown and described.

No. 34,548.—James Easterly, assignor to Himself and Dennis G. Littlefield. Albany, N. Y.—Improvement in Stoves.—Patent dated February 25, 1862.—The gauss is placed nearest the fire, and is designed to protect the mica from contact with the smite. flame, and ashes, thus allowing the mica to retain its original lustre.

Claim.—A window or door for stoves, furnaces, and every character of heater, comining the properties of metallic gauze and of mica or other transparent material, for the purex.

specified.

No. 34,549.—G. W. LA BAW, assignor to Himself and P. F. CAMPBELL, of Jew Car. N. J.—Improvement in Springs for Carriages, Wagons, &c.—Patent dated February 1862.—The supporting bars cross each other, and their lower ends rest in boxes provided with India-rubber springs, which arrangement tends to keep the wagon body paradic with the axis. Buffer-springs are placed upon the axle to prevent the bars from coming to lar-

Claim.—First, the toggle-joint bars b b, in combination with the boxes c c, containing the

springs of India-rubber, as and for the purposes specified. Second, the cushions or buffers ff of India-rubber applied to take the toggle-joint tars! in the manner and for the purposes set forth.

No. 34,550.—T. S. LAMBERT, assignor to H. W. HUNT, of Peekskill, N. Y.—Improved in Double Windows.-Patent dated February 25, 1862.-The doors are designed, in will a part, to contain paper, plain or colored, instead of glass. Removable stops or singleplaced between the door and outer window for the door to abut against.

Claim.—The combination of light sash doors, hung to the inside stops of a window. 7.2 the movable stops K K L, so that when the door is closed it will abut upon the outer wice. sash, making in effect a double window, as and for the purposes set forth and described.

No. 31,551.—W. T. Pogue, of Vienna, Ind., assignor to George Hely, of Ricks. Ind .- Improvement in Apparatus for Holding Wagon-Wheels while Loading .- Patent d. . February 25, 1862.—The claim and engraving explain the nature and object of this myer.

**Claim.—The arrangement of the rods B E F, swivel C, clevices D D D, in combinator

with the wheels A A, the better to effect the purpose described, the whole being constructed

substantially as described.

No. 34,552.—A. J. Scoville and A. H. De Clerg, of Bloomington, Ill.—Improved in Pistons for Steam-Engines.—Patent dated February 25, 1862.—The object of this invent. is to dispense with the use of springs or other mechanical contrivances for adjusting and 😭

sting metallic packing of steam-engines. Steam is caused to enter against the edges of the rings to press them over to the opposite side of the piston-head with the valve-rings and holes. by means of which, steam is admitted at the same time into the piston-head and against the mner surface of the piston-rings, thus pressing them against the cylinder.

Claim.—The valve-ring, with the holes opening against it through the flange of the piston-

head and through the follower, constructed and operating substantially as described.

Also, the combination of the small holes through the flange of the piston-head, and through the follower, against the edge of the outside rings, with the inside and outside piston-rings and the valve-ring, and holes opening against it through flange of the piston-head, and through the follower, the whole arranged and operating substantially as described.

No. 34.553.—E. W. SEYMOUR, of Centre Lisle, N. Y., assignor to Himself and G. W. GREGORY, of Binghamton, N. Y.—Improvement in Shifting Hinge-joint or Coupling-shafts of Wagons.—Patent dated February 25, 1862.—The hinge-joint or coupling is so constructed that by elevating or turning that part of the hinge which enters the slot of the barrel and price which medium the barrel and price which medium the barrel and price which medium the barrel and price which medium the barrel and price which medium the barrel and price which medium the barrel and price which medium the barrel and price which medium the barrel and price which medium the barrel and price which medium the barrel and price which medium the barrel and price which medium the barrel and price which was a supplied to the barrel and the barrel and the barrel and the barrel and the barrel and the barrel and the barrel and the barrel and the barrel and the barrel and the barrel and the barrel and the barrel and the barrel and the barrel and the barrel and the barrel and the barrel and t pivot which revolves in the barrel part of the hinge at a certain angle, it will enter said slot, and thereby operate as a lever, form the joint, and securely attach the hinge.

Claim.—A shifting hinge-joint or coupling, constructed in the following manner, to wit: the combination of the barrel A with the pivot C and slot D with the arm H and its shoulder G,

as and for the purposes described.

No. 34.54.-J. L. TREAT, assignor to YALE and CURTIS, of New York, N. Y.-Improvement is Drawing Apparatus for Portable Vessels.—Patent dated February 25, 1862.—The inner reasel is fitted loosely within and suspended by a helical spring to the top of the outer one, the frame being open at the bottom and closed at the top, with the exception of a small eseming. Attached to the under side of the top cap is a sleeve through which plays a spindle, by pressing on the button of which, the shell is depressed and the valve closed. The air aring no means of escape, acts upon the surface of the liquor and causes it to rise in the pace between the shell and vessel, to be discharged through the spout. A release of the means on the spindle allows the valve to open and the air to enter to supply the place of he iquor drawn off.

Class.—The vessel A, having an inner shell B, fitted loosely within it, and suspended on the cover of the same by a vertical spring d, the said shell being open at the bottom and novided with an aperture c in the top, which is closed when liquor is drawn from the vessel, Tavalvej, actuated by the same pressure that forces the shell down and causes the liquor blow from the spout of the vessel, when arranged to operate in the manner substantially as

enbe i.

No. 34,555.-J. S. ATTERBURY, J. REDDICK, and T. B. ATTERBURY, of Pittsburg, Pa-Improvements in Moulds for Glassicare. - Patent dated March 4, 1862. - The mould is or posed of a base plate with a projection of spherical form projecting up from its top, and section having a semispherical recess on which the bas-relief design is engraved or wrought. Est above the recess is a partition through which an orifice extends down to the recess.

Love the partition is a cylindrical chamber provided with a plunger and follower. Melted the sof red color is poured into this chamber and pressed through the orifice into the recess, which, by another process, glass is blown and a bowl or peg is formed on the inner surace of the prism.

Claim.—First, the means and manner, substantially as described, of pressing articles of

hasware in bas-relief.

second, the means and manner of uniting the bas-relief glass-work to the outer surface of hown glassware, substantially as described.

30. 34.556.—B. H. BARTOL, of Philadelphia, Pa.—Improvement in Steam Boilers.— Pretidited March 4. 1862.—The tubular flue is arranged at the rear of, and nearly as low as the furnace, thus allowing the boiler to be so far reduced in height as to be contained Gam.—The furnace B, diving flue H, one or more horizontal flues J, and the return flue M. with its vertical tubes, the whole being arranged within the casing A, as and for the purpose set forth.

No. 34,557 .- J. A. BASSETT, of Salem, Mass .- Improved Apparatus for Carbureting Gas. Patent dated March 4, 1862.—This apparatus consists of a vessel containing a series of angular passages, arranged concentrically one within another, around an upright axis, and communicating with each other on opposite sides alternately, and a second vessel filled with a wrons material above the first-named vessel, and communicating therewith by means of an attracted valve attached to the same stem with an inverted cup-shaped float arranged in the ower vessel, and with a valve at the mouth of the inlet, by which the gas enters the latter seel from the main. Both of the vessels contain naphtha or other volatile hydro-carbon and the lower vessel serves partly to effect the naphthalizing process, but mainly as a

cooler to cool the gas before its advent to the upper vessel in which the naphthalizing process is mainly performed. The inverted cup and valves operate to nearly shut off the gas when the liquid in the lower vessel gets low, to give notice that the said vessel requires replenishing.

Claim.—First, the combination, substantially as described, of a vessel A, in which the gas passes circuitously over the surface of the hydro-carbon liquid, to be partly carbureted solecoled by the evaporation of the liquid, and a vessel B, containing a porous substance, and saturated with such liquid, through which the gas subsequently passes, as set forth.

saturated with such liquid, through which the gas subsequently passes, as set forth.

Second, the gas-regulating valve j, and float k, combined with a gas-naphthalizing or catereting apparatus, substantially as specified—that is to say, with the float floating in the naphthalizing or catered the substantially as specified—that is to say, with the float floating in the naphthalizing or catered the substantially as specified—that is to say, with the float floating in the naphthalizing or catered the substantial substan

or other hydro-carbon liquid used for the carbureting process.

No. 34,558.—R. H. BLAIR and A. W. BEATTY, of Saltsburg, Pa.—Improvement in How-Rakes.—Patent dated March 4, 1862.—The upper ends of the wire rake teeth are fitted in a bar which turns freely in eyes or bearings attached to the back of the axle. From this to project arms, to which are secured rods connected with a crank operated by a lever on the forward part of the machine. The rods are also connected above to springs by links, which are designed to keep the teeth elevated above the surface of the ground. By drawing best the lever and securing it in the rack plate, the teeth are secured in working position.

Claim.—The connecting of the bar K, of the rake, to springs Q Q, through the medium the arms J J, rods O, and links P, in connexion with the rods I I, crank shaft F, leve 6 and rack plate E, all arranged and mounted as shown, to operate as and for the purposes:

forth.

No. 34,559.—J. M. BLAKE, of Madison, Wis.—Improvement in Horse Powers.—Pwedated March 4, 1862.—Through each end of the connecting blocks which form the state the under side and one-quarter of the distance from either end to the other, hole to bored, through which pass coupling rods transversely to the blocks, and in the centred to the blocks in the second tier thereof mortises are made, into which are fitted supports pash to the coupling rods. The ends of all the blocks in the other tiers are framed in such a manual to rest firmly on the supports when any part of the apron is in a straight line, thus readers the apron self-supporting and inflexible. The drums may have any desired number of size to conform to the sections of the apron, and are provided with teeth catching into supports prevent the apron from slipping.

Claim.—First, the endless apron A, when constructed substantially as described with

supports f, and connecting blocks a.

Second, the arrangement of the large friction rollers B, drum C, and end roller D, in exbination with the endless apron A, substantially as and for the purposes specified.

No. 34,560.—JOSEPH BONDY, of New York, N. Y.—Improvement in Knapsacks.—Presset and March 4, 1862.—The device is designed to be attached to knapsacks made with stream is stead of frames, the object being to draw the knapsack close to the shoulders to pressivinging about, and to keep the back part firmly elevated so that the lower end mystakes and knock against the back of the wearer.

Claim.—The straps D D, extending from and connecting the rear upper edge of the knaps track to the shoulder straps or strap C, which are fixed to the front side of the knaps to defend th

stantially as and for the purpose specified.

No. 34,561.—W. H. BROWN, of Worcester, Mass.—Improvement in Breech-losding two was.—Patent dated March 4, 1862.—The locking bar is hinged at its rear end to a two number the barrel, the other end being slotted to receive the bent end of a connecting which rests upon, and is screwed to, an adjusting plate. A screw passes through the locking that the connecting and adjusting plates, having a nut on its end, which holds down an end of the connecting upon the adjusting piece. A packing piece, made adjustable of dinally, is secured to the stock by a screw, the face of the packing piece against which is end of the locking bar bears, being somewhat inclined, while the end of the locking is a welled in a corresponding manner, so as to form a wedge, by means of which, in contact with adjusting screws, any desired amount of pressure of the barrel against the breeze Labe given. The front ends of the plates and locking bar are elevated by the screw and red whereby the barrel is forced further back when locked. Hooked projections, rigidly come to the breech piece, are so arranged that, in loading, the cartridge can be placed in poly a simple downward movement of the hand, the flange of the case passing between two upper hooked projections until the lower edge of the flange rests on the lower hook.

Claim.—First, the peculiar method of moving the barrel in both directions, and however the breech J, by means of the locking bar D, in combination with the parts EF and Second, the combination and relative arrangement of the inclined or wedge-shaped solve packing piece o, with the stock and front-bevelled end of the locking bar D, subset

thilly as and for the purpose set forth.

Third, the combination and arrangement of the adjusting piece E with the adjusting screws e and r, for adjusting the pressure of the barrel against the breech, substantial actions as forth.

Fourth, the combination and peculiar arrangement of the connecting piece F, with a locking bar D, and the lever G, as described, whereby it is allowed a longitudinal motion to facilitate the passing of the joint c past the plane of the axes n and a, during the operation of lockin,

and unlocking the barrel.

Fifth, the combination with the stationary breech J, and the recessed rear end of the barrel B of the projecting hooks m mm, constructed and arranged to operate as described, whereby the carridge case can be placed in position by a simple downward movement of the hand, and there retained in a central position as respects the bore of the barrel, until after the charge has been fired and the barrel unlocked, for the purposes set forth.

No. 34,562.—R. S. CHAPIN, of New York, N. Y.—Improvement in Lamps.—Patent dated March 4, 1862.—The wick tube has on one side of the upper end a plate extending up and forming a part of, or attached to the tube, for the purpose of spreading the flame in a thin sheet. The deflector is so arranged as to leave a narrow parallel opening between it and the apper edge of the plate.

Claim. In combination with the wick tube, constructed as aforesaid, the deflecting cap c,

applied in the manner and for the purposes specified.

No. 34.563.-W. Z. W. CHAPMAN, of New York, N. Y.-Improvement in Fastenings for Cartridge Boxes.—Patent dated March 4, 1862.—The clasp consists of a hinged plate of metal provided with a spring to keep it open or shut, acting like a knife blade. A perforation in the plate fitting over a pin serves to keep the box closed, and a projection on the end of the clasp admits of its being readily opened.

Claim.—The clasp f, formed substantially as specified and applied to the lower part of the

flap of a cartridge or cap box, and connecting to the bottom of said cartridge or cap box, in the manner set forth, so as to form a fastening that can be worked by the fingers in the act

of opening or closing said box, as described and shown.

No. 34,564.—C. W. CLEWLEY, of Providence, R. I.—Improvement in Watch and Locke' Case.—Patent dated March 4, 1862.—The rim is formed by first stamping a planchet out of a piece of metal by a punching tool. It is then subjected to the action successively of two sets of dies for one side of the case. The rim for the other side is subjected to a third set of dies after it has been acted on by the first two sets. After the rims are completed, two solid backs are fitted to them, and the two rims are connected by a lunge.

Claim.—A rim for lockets and similar metallic cases formed of sheet metal, in such manper that the face of the field-piece within the case and the exterior surface of the rim are bot's Stated from the same side or surface of the original sheet metal, and that the field-piece an .

LE are of one piece of metal.

No. 34,565.—F. H. CUYPERS, of Newark, N. J.—Improvement in Hinges and Hooks.— 33,355.—F. H. CUYPERS, of Newark, N. J.—*improvement in ringes and novas.*—Stend dated March 4, 1862.—The part of the hinge entering the wall is slit so as to form two tongues and a centre-piece. Wedges having points to correspond with the opening setween the tongues or forks are first placed in the hole made to receive them. A brass complet casing slit at the lower corners encloses the fork. On being driven in, the forks are made to expand by the wedges. The case also expands, and the hinge is securely held. Which is the use of screws or other fastening. That portion of the hinge to be inserted in wood is formed with a projecting flance so as to afford a hearing on both sides of the spike. wood is formed with a projecting flange, so as to afford a bearing on both sides of the spike. Chim.—First, the combination of the wedges B, casing C, and tongues E, constructed and operating as set forth.

Second, the combination of the projecting flange F' with a hinge having tongues expanded

" deflected by wedges, as explained.

No. 34,566.—W. H. DOANE, of Chicago, Ill.—Improvement in Machines for Cutting Faters.—Patent dated March 4, 1862.—The concave is constructed mainly of cast-iron, and is ingers or gauge-stops are each cast with a groove or recess in its front face, and said recesses as well as the front faces of the gauge-stops are filled in and covered with a competition of the contract of the gauge-stops are filled in and covered with a competition of the contract of the gauge-stops are filled in an extension of the gauge-stops are filled in an extension of the gauge-stops are filled in an extension of the gauge-stops are filled in an extension of the gauge-stops are filled in an extension of the gauge-stops are filled in an extension of the gauge-stops are stops are stops. stion of brass and copper, or other non-corrosive metal, in order that the action of the acid from the steamed wood being cut, shall be neutralized, and the fingers or gauge-stops of the concave shall offer but slight friction on the bolt or block of iron.

Clein.—The combination of the cast-iron concave and curved-grooved ribs with the brafaces or other equivalent metal, arranged and connected in the manner and for the purpose

specified.

No. 34,567.—G. A. DABNEY, of San José, Cal.—Improvement in Apparatus for Operating Charas.—Patent dated March 4, 1862.—A swinging motion being given to the churn, the dasher is made to revolve alternately in opposite directions, by means of a cord acting on the pulley attached to the stem of the dasher.

Claim.—The arrangement of the vibrating frame J, arm m, and connecting rod m', in combination with the cord f, dasher I i, tub F, and swinging frame E a b, constructed and operating in the manner and for the purpose shown and described.

No. 34,568.—ALEXANDER DOUGLAS, of English Neighborhood, N. J., and S. S. Sherwood, of Acquackanonck, N. J.—Improvement in Ladies' Skirts.—Patent dated March 4. 1862.—The waist-band is strongthened to support it against the destructive effect of the hook, by a piece of thin metal attached by cyclets to the waist-bands, the cyclets at the same time furnishing the necessary holes for the introduction of the hook. The clasps or slides which secure the ends of the hoops are made open or divided and pointed, for the purpose of allowing a more convenient introduction of the hoop and securing a better hold on the web.

Claim.—First, the combination, in the manner described, of the hoops 1 1, tapes 2 2, and

braids 3 3

Second, the combination with the waist-band 8, and with each other, of the metal plate or

, strap 6 and the eyelets 7 7, substantially as set forth.

Third, the construction of the slides for expanding the skirt, with continuous bars upon the outer side of the hoop, or side furthest from the sliding portion, and with pointed teeth upon the inner side instead of continuous bars, in the manner and for the purpose described, the pointed teeth alternating with the bars, as shown.

Fourth, the combination with the upper continuous hoop of the stay 4, and eyelet 5, sub-

stantially as described.

No. 34,569.—Daniel Fitzgerald, of New York, N. Y.—Improvement in Tents.—Patent dated March 4, 1862.—The ribs or framing of the tent are pivoted upon and around the centre-pole, so that the said frame may be conveniently folded upon a vertical axis.

Claim.—First, constructing a tent in the caleche form, so that it may fold compactly

Claim.—First, constructing a tent in the caleche form, so that it may fold compactly together, vertically in a flat form, and be readily erected, substantially as described.

Second, the use of the flanged collars to hold the radial braces, constructed substantially

as described.

No. 34,570.—F. B. Franklin, of Appleton, Wis.—Improved Spring Bed-bottoms.—Patent dated March 4, 1862.—The bed-bottom is formed of a series of coils and loops. Each loop is formed in the shape of a spiral coil, and provided with an additional loop in each of its ends, making a continuous web throughout.

Claim.—The combination of the coils F F, loops G G', rods H H', and eyes E, all constructed, arranged, and connected in the manner shown and explained, so as to constitute a

continuous elastic web.

No. 34,571.—W. O. GROVER, of Boston, Mass.—Improvement in Sewing-Machine Needles.—Patent dated March 4, 1862.—The blank or ungrooved space should be at that part of the needle at which the point of the shuttle, hook, or other instrument, acting to sieze a loop, enters—the object being to protect the thread, and to prevent its twisting around the needle and forming a loop on the wrong side, so that the point of the interlooping instrument does not enter it.

Claim.—An eye-pointed needle, having an interrupted groove on one side and a continuous groove on the other, substantially such as is described.

No. 34,572.—O. P. HATFIELD, of New York, N. Y.—Improved Elevator.—Patent dated March 4, 1862.—The platform is supported upon a frame provided with diagonal braces from front to rear, and moving on vertical guide-posts placed upon one side only of the frame.

Claim.—The construction of an elevator or dumb-waiter, supported wholly upon one side, ascending and descending in a vertical course, substantially in the manner described.

No. 34,573.—W. G. HERMANCE, of Albany, N. Y.—Improvement in Straw Cutters.—Pale cut dated March 4, 1862.—The claim and engraving fully explain this invention—the object being to obtain a strong shear-cut.

Claim.—The combination of the bell-crank, lever G, link E, knife F, and standards or arms C D, cast or secured to the mouthpiece B, substantially as and for the purposes set

forth.

No. 34,574.—G. B. HICKS, of Cleveland, Ohio.—Improvement in Telegraph Appearatus.—Patent dated March 4, 1862.—The armature of the receiving magnet, instead of being adjusted by a spring pulling the magnet, as is usual, has a movable local magnet placed behind its armature, (the armature being double;) this local magnet being adjusted close to or as near the armature as required, by means of a screw. The armature being double, allows a space between the magnets, so that the magnetism of one cannot influence the other. Conducting wires are attached to the local magnet wires. One of these is connected to a screw by means of a brass plate attached to insulating bars, which plate is thus insulated from the arc a; the other is connected to the armature lever underneath the base.

Claim.—First, the employment of an adjustable magnet m'm', as and for the purpose set

Second, the double armature lever M, with the attached armatures a2 a3, arranged and operating as specified.

Third, the employment of the local battery number 1 in combination with the helix m' m', the conducting wires w' w', and the points o and e, arranged and operating as and for the purpose described.

Fourth, the employment of two points, one on each end of the sounder armature lever L, by means of which circuit through two magnets on opposite sides of the same armature may be closed or broken simultaneously, and thus the armature lever held still for the purpose described.

Fifth, the combination of the adjustable local magnet m'm' with the receiving and recording

instruments, when arranged and operated as and for the purposes specified.

No. 34,575 .- J. P. HILLARD, of Fall River, Mass .- Improved High and Low Water Detector for Steam Boilers .- Patent dated March 4, 1862 .- The claim describes the nature and

object of this invention.

Claim.—The combination of the valve B' with two ports and detector A', with one port and adjusting arm J attached to B' and float F', constructed and arranged to operate so that when the water falls to a certain line in the boiler the float F', resting on the water, will open the valve and allow the steam to escape through port D', to give alarm, and when the water rises to a certain line in the boiler, the float F' will rise and open the valve and allow the water to escape through port C' and give alarm, substantially as and for the purposes set forth and described.

No. 34,576.—W. H. HOLBROOKE, of New York, N. Y.—Improved Silicated Scap.—Patent dated March 4, 1862.—The nature of this invention is explained by the claim.

Claim.—The combining of a soluble alkaline silicate with rice flour, or an analogous flour, by the process before described or its equivalent, to be used as an ingredient in soapmaking.

No. 34,577.—Samuel Jarden, of Baltimore, Md.—Improved Odorizer of Kerosene Off.
—Patent dated March 4, 1862.—The oils used for the purpose claimed are oil of lavender,
oil of cinnamon, oil of bergamot, oil of lemon, and oil of rosemary, combined in greater or less proportion with kerosene oil, for disguising the disagreeable odor of the latter.

Claim.—The manner of odorizing kerosene oil as stated, or by combination with said essential oils in greater or less proportions, if the said manner of odorizing be substantially

No. 34,578.—W. H. KELLY, of Onondaga county, N. Y.—Improvement in Cultivators. -Patent dated March 4, 1862.-The shares are so attached to the rear of the main centre beam by means of a clasp and nut and screw, as to be readily adjusted forward and back ward, and so that their rings may be made to face either side or outwards and inwards.

Claim.—The combination of the central beam, made as described, with the shares 5 and shanks a, when constructed and operating as set forth, and attached to the beam by means

of clasps and bolts, as shown by figs. 7, 7.

No. 34,579.—BENEDIKT KING, of Providence, R. I.—Improvement in Cartridges adapted to Breech-loading Fire-arms.—Patent dated March 4, 1862.—This invention has for its object the connecting of the nipple with the cartridge, and consists in placing at the rear end of the cartridge and in connexion therewith (in a breech-loading fire-arm) a metallic hollow disk with an attached hollow nipple upon which is placed the percussion cap, secured in an

appropriate recess by a hinged plate, which forms the resisting breech of the arm.

Claim.—The use and employment of a cartridge having its base formed substantially as described, in combination with the groove V and plate J, when said plate forms a part or one side of the groove or hole V, being constructed and operating substantially as set forth.

No. 34,580.—Lewis Kirk, of Reading, Pa.—Improvement in Brick Machines.—Patent dated March 4, 1862.—The invention is designed for making bricks, preparatory to their being burned or baked, by a machine operating for the purpose, as follows: First, the compression of the clay uniformly throughout its whole mass. Second, the expulsion of the air throughout the clay uniformly throughout its whole mass. out the whole mass of clay before it is compressed into its ultimate shape. Third, the formation of a solid brick, free from air, and equally compressed throughout the whole mass when moulded along its four larger sides and trimmed at its smaller ends.

Claim.—First, the formation of solid building-brick by compressing the clay in and forcing tout of forming tubes, and by subsequently trimming the ends by the means and substan-

fially in the manner as described.

Second, gradually condensing the particles of clay and expelling the air therefrom by compressing the clay in a separate chamber previous to its being forced in and through the form-

ing tube by the means substantially as described and for the purposes set forth.

Third, in combination with the mechanism described for compressing the clay by forcing it in and through a forming tube, a mechanism constructed, arranged, and operating substantially as set forth, for dividing the compacted mass of clay into bricks of suitable length and for simultaneously trimming both ends. Digitized by Google

Fourth, in a brick machine constructed to operate as described by forcing the compressed clay in and through a forming tube, the mechanism for regulating at will the supply of clay into the compression chamber, substantially in the manner and for the purpose set forth.

Fifth, the mode described of dividing transversely the mass of clay compacted into shape by the employment, in combination with the revolving trimming knives or their equivalents, of a fixed and movable platen and tray, constructed to operate as set forth, so as firmly to hold the mass of clay, to constitute a brick, around its longer sides, while it is being cut at its ends.

Sixth, the construction of the hopper with curved grate-bars at the bottom thereof when said bars are provided with projecting teeth, shaped and combined with revolving triturating b ades, as described, the whole arranged substantially in the manner to operate as set forth.

No. 34,581.—A. S. LYMAN, of New York, N. Y.—Improved Process of Separating the Fibres of Wood and other Substances for the Manufacture of Paper Pulp .- Patent dated March 4. 1862.—The claim and engraving explain the nature and object of this invention.

Claim.—First, effecting the separation of the fibres of wood, hemp, flax, or other vegetable matters, by subjecting them, in a close vessel or vessels, to the combined simultaneous action of a whipping, beating, rubbing, grinding, or picking apparatus, and of water at a high temperature and pressure.

Second, the washing out of the gummy and coloring matters or other soluble parts from the fibres by changing the water while the substances are being subjected to the combined or simultaneous action specified.

No. 34,582.—P. W. MACKENZIE, of Jersey City, N. J., assignor to Addison Smith, of New York, N. Y.-Improved Gas Compensator.-Patent dated March 4, 1862.-The compensating plates consist of two or more corrugated (or they may be straight) circular plates of thin metal or any suitable material, (which will allow compensation or yielding to the variations in pressure of the gas,) joined together at the periphery, and having a rod connecting the upper plate with a balance-valve made adjustable by means of a screw-thread cut on the rod, the latter being connected to the valve on one side of its centre, so that if the exhauster is exhausting more gas than is generated, the pressure on the upper plate would be with-

drawn, the plate depressed, and the valve opened.

Claim.—The use of the compensating plates A A, the connecting and adjusting rods g and j, in combination with the valve f, and circular valve-seat d d, or its equivalent, with

long narrow ports ss, the whole substantially as set forth.

No. 34,583.—B. F. McAlhatten, of New York, N. Y.—Improved Bed for Ships and Hospitals.—Patent dated March 4, 1862.—The bed is designed to be used either as a benth on board a ship or as a bed in hospitals, being arranged in such a manner as to form a lifepreserving raft in case of danger at sea, or made capable of being heated or cooled when used in hospitals, by the introduction of hot water or ice in the compartments.

Claim.—The construction of a bed with both the end pieces and the bottom pieces forming

the bottom laths, made of air-tight chambers, the whole being arranged and combined in the

manner and for the purpose substantially as described and specified.

No. 34,584.—J. H. Mears, of Oshkosh, Wis.—Improvement in Rakers for Harvesters.—Patent dated March 4, 1862.—The invention consists in the employment or use of a rake attached to an endless belt or chain, and used in connexion with a guide; the above parts being placed in such relation with the grain platform, and all arranged in such a manner, that the rake will, as the endless belt or chain is moved, traverse or sweep across the platform and take the cut grain therefrom, and return back to its original working point in an elevated state, so as not to interfere during its return movement with the falling of the cut grain on the platform, nor with the bars of the reel which throw the cut grain thereon.

Claim.—Guide X, constructed and operating as set forth, and arranged relatively with guide N, standard 3, bevel wheel S, and double rake P, as and for the purposes set forth.

No. 34,585.—A. D. MILNE, of Tiverton, R. I.—Improvement in Tobacco Pipes.—Patent dated March 4, 1862.—The metallic condenser in the pipe-stem is made of iron wire, a straight piece forming the centre, and surrounded by fine gauze presenting cylindrical sections, the warp of which is returned at intervals and secured to the central wire for the purpose of deflecting the smoke and securing the more effective operation of the condenser. The bowl of the pipe is provided with a metal lining, with openings on opposite sides, and resting on a removable partition which is supported on shoulders within the bowl. The stem is provided with a valve for the purpose of modifying the strength of the smoke and increasing the effect of the condenser by the admission of air.

Claim.—First, providing the stem of a tobacco pipe with a removable metallic condenser,

substantially as and for the purpose set forth.

Second, providing the bowl with a removable lining, constructed as described, in combination with the removable partition, substantially as and for the purpose set forth.

Third, providing the stem with a valve which may be opened and closed at pleasure, as set forth.

No. 34,596.—John MITTLEHAUS, of Berlin, Prussia.—Improvement in Setting Artificial Tests.-Patent dated March 4, 1862.-The claim and engravings explain the nature and

object of this invention.

Claim.—The construction of button-set teeth by combining the following elements: first, a tooth-plate a, in proportion to length and breadth, at more or less places perforated by oval openings; second, an edge or rim b, surrounding all openings of the tooth plate on the side facing the pituitary membrane; third, a cover c, a little larger than the said edge, soldered to the tooth plate at the side turned to the mouth-hole, so as to leave a space between the tooth plate and the cover, substantially as shown and described.

No. 34,587.—ROBERT MORRISON, of Newcastle-upon-Tyne, England.—Improvement in Appendix for Forging and Crushing Iron.—Patented in England, August 6, 1853.—Patent dated March 4, 1862.—The hammer consists of a cylindrical bar of metal on which are formed the piston and guides for the hammer movement. The standards extend above the top of the cylinder, and on the upper end of the hammer is formed a deep T-shaped piece, which him with the standards are the standards. which being provided with slides on its opposite sides, fitted into corresponding slides in the standards, serve as additional guides for the hammer stroke.

Claim.-First, the system or mode of constructing such apparatus with the piston, piston

rod, or hummer bar and guides, in one solid mass.

becond a hammer bar for steam hammers, constructed substantially as described and aranged in relation to other parts of the apparatus, so as to dispense with the use of guides below the cylinder.

No 34,588.—B. W. Nichols, of Fair Haven, Conn.—Coupling for Octaves, &c., in Middless.—Patent dated March 4, 1862.—This invention consists in the use of a series of single diagonal levers to be raised to the position to connect the octave by means of a shaft cam extending the whole length of the reed board, so as to raise all the diagonal levers at the same time and to the same height when it is desirable to couple the octaves. The valves are Take of such length and shape that they may be opened equally well by pressing the front and downward with the pitman, or the rear end upward by the adjusting screw in the rear and of the diagonal lever.

Claim.—First, a melodeon valve made with its rear portion so extended and bevelled that it may be opened by pressing the rear end toward the reed board as readily and effectually as by pressing the front end from the reed board, when it is made and fitted for the purpose of

coupling octaves, substantially as described.

Second, the use of the shaft cam C, when it is made to serve the double purpose of bringing be diagonal levers into position, and also forming a complete fulcrum on which the whole etes of diagonal levers may be vibrated, when made, located, and used substantially as

Third, the use of a series of single diagonal levers c, in combination with valves d, fitted 0 be worked at both ends, for the purpose of coupling octaves, when the whole is constructed, manged, and fitted to produce the result, substantially as described.

Fourth, the use of the series of single diagonal levers c, in combination with the shaft cam , when constructed, arranged, and operated substantially as described.

No. 24,589.—L. C. PALMER, of East Winsted, Conn.—Improvement in Furnaces for leating Scythes, &c.—Patent dated March 4, 1862.—A recess is formed at the rear of the fire or, which, in connexion with the ledge extending through the centre of the flue and upon a bottom, allows the work to be brought forward nearly above the coals. The ledge is also stigned to separate the flame, &c., in its passage through the flue, so as to insure an equal except heat on both sides of the flue. The sides of the furnace are perforated with holes execution both sides of the flue. The sides of admit of two sets of workmen using the same fire.

Claim.—The arrangement of the recess G, and ledge g, with the fire-box B, flue D, and

Penings i, as and for the purpose shown and described.

No. 34,590.—J. L. PLIMPTON, of New York, N. Y.—Improvement in Fastenings for Mate.—Patent dated March 4, 1862.—One end of the connecting link is attached to the Die plate of the skate, and the other is made to fasten at the back of the heel. A suitable top is placed upon the upper face of the skate plate, against which the heel is clamped and ecurely held by means of the link and strap.

Claim. - First, the combination of the connecting link D, and sole plate A, with an adjustable

remanent stop, substantially as described.

becond, the connecting link D, lever and catch, or equivalent device, in combination with 16 stop E, and sole plate A, when combined and arranged to operate substantially as ⇔cribed.

No. 34,591.—H. J. M. PUISTIENNE, of Paris, France.—Improved Mode of Treating Cop-7 Ores.—Patent dated March 4, 1862.—The nature of this invention is explained by the aim.

Claim.—The mode set forth of treating copper ores, and particularly the application of sulphur, chloride of calcium or chloride of lime, or other chlorides, for the purposes of the present invention, and it is to be understood that the proportions of the chemical agents mentioned may be varied according to the nature of the copper ores to be operated upon.

No. 34,592.—G. W. PUTNAM, of Smithfield, N. Y .- Improved Device for Purifying Butter.—Patent dated March 4, 1662.—This invention consists in separating buttermilk, bine and other liquids or semi-liquids from butter, by subjecting the same to a requisite pressure within a suitable vessel or chamber provided with eduction passages, whereby the particles of butter are made to adhere together, and the foreign fluid substances strained out or sepsrated therefrom.

Claim.—Having the vessel A provided with butter-escape openings g, in combination with the adjustable perforated slides h, substantially as shown and described for the purpose set forth.

No. 34,593.—T. C. RICHARDS, of Milwaukie, Wis.—Improvement in Curtain Fixtures.— Patent dated March 4, 1862.—This invention consists in applying a pressure roller having a milled or corrugated periphery to the pulley of the upper roller. The pressure roller is attached, by means of pendants and a spring, to a bracket screwed to the upper part of the window frame, the object being to prevent the slipping of the cord on the pulley of the upper

Claim.—As a new article of manufacture, a curtain fixture or pressure roller, constructed as and for the purpose set forth.

No. 34,594.—E. P. RUSSELL, of Manlius, N. Y.—Improvement in Harvesters.—Patent dated March 4, 1862.—The tapering rollers are placed on the face of the driving shaft, and running on the bevelled flange of the shaft, cause the latter to revolve and impart motion to the cutters, being designed as an improvement on the flange and rollers working at right angles to each other.

Claim.—The combination of the tapering or cenical rollers a, with the bevel outward on

the flange c, operating as described and for the purposes set forth.

No. 34,595.—E. M. Scott, of Auburn, N. Y.—Improvement in Machines for Turning and Mortising Hubs.—Patent dated March 4, 1862.—This invention consists in combining with an ordinary turning lathe a slide rest provided with a cutter, and also with a mortising tool, so arranged that the cutter may be first made to act against the work and return the hub in proper form, and the mortising tool then made to act upon and mortise the hub.

Claim.—The pivoted bar I, provided with the parallel guides ff and sliding heads J N, the heads being provided one with the cutter M, and the other with the chisel O, and augers j and the head J, operated by a screw K, and connected with the head N by a bar T when required; all being arranged and combined with a turning lathe, to operate as and for the

purpose set forth.

No. 34,596.—C. W. SMALL, of Bangor, Maine.—Improvement in Projectiles for Rifled Ordnance.—Patent dated March 4. 1862.—The inner portions of the strips which form the packing. and are partly imbedded in the rear body of the projectile, are arranged radially to the axis of the projectile, but the outer portions are bent over the forward body in such a manner as to overlap each other and form sections of a tube of cylindrical form, covering the rear and of the forward body. The tube is caused to expand by the explosion of the charge.

Claim.—Furnishing a projectile with a packing formed of strips a b a b, of flexible metal, partly imbedded in the metal of which the projectile is formed and partly lapping each other on the exterior of the projectile, in such a manner as to form an expanding tube, substantially

as and for the purpose specified.

No. 34,597.—C. L. SPENCER, of Providence, R. I.—Improvement in Mode of Converting Motion.—Patent dated March 4, 1862.—The upper ends of the connecting rods are curved so as to be capable of spanning the shaft which they are designed to turn, and are connected with a pair of pawls working ratchets or their equivalents in opposite directions, for the puspose of giving motion to the shaft in one direction only. A spring is placed between the two arms in such a manner as to spread the arms apart to prevent liability of hanging on the centre.

Claim.—The use of the spring I, or its equivalent, in combination with the curved connecting rods G G, for the purpose of enabling the operating pawls to be so adjusted as to obtain an effect upon the shaft equal to the action of the crank, while the danger of hanging upon the dead point is prevented, substantially as described.

No. 34,598.—L. L. STEARNS, assignor to Himself and L. M. MEIGS, of Jersey Shore, Pa-Improved Washing Machine.—Patent dated March 4, 1862.—The invention consists in adfusting the pressure upon the clothes to be washed by means of a spring lever, in connexion with the main operating lever, so that a variable degree of pressure proportionate to the thick-

ness of the clothes to be washed is obtained, and the oscillating frame raised by the use of one hand only.

Claim.—The construction of the adjusting lever C, in connexion with the main lever B, and in combination with the spring D, substantially as and for the purpose specified.

No. 34,599.—Collins and Munroe Stevens, of Boston, Mass.—Improvement in Clocks. Patent dated March 4, 1862.—This invention consists in a combination of devices for the purpose of readily locking and unlocking a Remonton time-piece by the peculiar method of locking the tooth or detent. The whole or nearly the whole pressure caused by the driving weight of the clock is resisted and received upon the pivot or support at or towards the centre of the motion of the tooth or detent, and no force is required for unlocking the wheel, except to overcome the friction at the detent and at the centre of motion of the same, caused by the presure produced by the driving weight of the clock.

Claim.—The tooth or detent M, turning about a centre pivot or support, as described, in common with the lever m m, substantially as and for the purposes set forth.

Also, the method of relifting and relocking the lever m m, and the tooth or detent M, by the came a, substantially as described.

Also, the combination of the wheel h, the wheel c, and the shaft i, as described, for the

purpose of rewinding the spring at the escape wheel, substantially as described.

Also, the socket v, protruding through the plate B', in the manner described, in combination with the arm v, the pin y, and the spring z, substantially as described, for the purpose of setting the time part of the clock.

No. 34,600.—W. W. St. John, of Pleasant Mount, Mo.—Improvement in Current Water Water Patent dated March 4, 1862.—The two pairs of buckets being placed at right angles with each other, are made to operate so that the buckets ceasing to act, partially turns the bucket of the other pair into the water up stream, and the previously active bucket returns up stream edgewise and above the surface of the water. The buckets are set upon an adjustable hub, so as to be adapted to the rise and fall of the water.

Claim.—Fitting the pairs of buckets g h and i k, when arranged at right angles upon the sijustable block or hub f in the manner specified, so that said buckets, by the adjustment of the block, can be so placed as to return above the surface of the water while the buckets

in action are immersed as much as possible, as set forth.

No. 34,601.—J. F. TAPLEY, of Springfield, Mass.—Improvement in Printing and Cutting Peper —Patent dated March 4, 1862.—This invention consists in attaching a cutter to a block having a design raised on its surface in such a manner that the operation of cutting and printmg may be performed at the same time; the object being to cut out a hole inside of a printed design, as in paper mats for photographs and pages for photographic albums.

Class.—The combination of the cutter or die B with the block C and springs D D, or their

mechanical equivalents, when constructed and operating substantially in the manner and for

the purpose fully set forth.

No. 34,602.—ELMER TOWNSEND, of Boston, Mass.—Improvement in Canister or Case Show for Ordnance.—Patent dated March 4, 1862.—The projectile is provided with a winged cappace or missile, consisting of a cap having four wings arranged longitudinally and at right agies to each other, so that the missile when discharged shall be impelled forward in a direct like through the air. The wings are kept in place by one or more fianches on the inner surface of the case. The rear part of the shell case A has a bottom cast upon it provided with a rejection, to which rear part a wooden sabot is affixed, around which latter a packing of when or equivalent, is wound for the purpose of preventing windage. A fuse projects from the rear end, whereby a direct communication is made between the powder of the main and accordary charges. The rear part of the fuse is formed with a conical point, so as to cut through the paper of the cartridge, which is forced against it by the explosion, and causing

the gas to enter holes made in the fuse-tube, fires the combustible material thereof.

Claim.—The arrangement and combination of the wings h with the head H, the case A, and the charge of balls thereof, the whole being to operate together, substantially as and for

purpose or purposes as specified.

Also, the combination and arrangement of the part C with the shell case A, the sabot D.

and the packing d.

Also, the combination and arrangement of the cap G and one or more lateral orifices f with tuse-tube and a chamber n, formed in the rear end of the sabot as specified.

Also, the combination of one or more flanches k k, or the equivalent therefor, with the loade chamber and the winged head applied thereto.

Also, the construction of the cap l and the wings h, viz., in two separate parts, substantially h manner and so as to be combined together as described.

No. 34,603.—G. O. TOWNSEND, of Boston, Mass.—Improvement in Tents.—Patent dated Narch 4, 1862.—The pole has a screw fitted upon it at a suitable distance from the lower end, epon which is placed a frame formed by two rings connected by rods. By means of a ring

or band provided with lugs and operated by a lever, the frame to which the upper part of the tent is connected is raised or lowered, so that the tension of the canvas may be regulated to suit damp or dry weather. Openings are made in the tent covered by canvas flaps, the sides of which are fitted within pockets on each side of the openings, the lower end of the flaps having a toggle fitting in it. By means of cords attached to the toggles the flaps may be opened and closed from the inside of the tent.

Claim.—First, elevating or erecting the tent and graduating the tension of the canvas A thereof by means of a sliding frame D placed on the pole B and operated by means of the

screw C on the pole, and the ring or band E and pin d, or their equivalents, as set forth. Second, the combination of the toggles and attached cords p q with the flaps l, in the manner shown and described.

No. 34,604.—J. B. Van Deusen, of New York, N.Y.—Improved Car Compling.—Patent dated March 4, 1862.—The spiral flanches of the shackle bar are caused, by their peculiar form, to turn on one side as they enter the opening, and resume a pendent position when through the openings by their own gravity, thus rendering the bar self-locking. The circular notches in the back plates are designed as bearings to hold the ends of the shackle bar in a

horizontal position when in one drawhead only.

Claim.—The shackle D, provided with the spiral flanches a a, in combination with the

drawheads A A, having spiral openings C C, arranged relatively with the flanches a a of the drawheads, to operate as and for the purpose set forth.

Also, in connexion with the shackle and drawheads A A, the back-plates b attached to the frames B, and provided with the recesses or notches c, for the purpose of holding or sustaining the shackle, as set forth.

No. 34,605.—George Westinghouse, of Schenectady, N. Y.—Improvement in Grain and Seed Winnowers.—Patent dated March 4, 1862.—This invention consists in operating the shoe so as to give it an oblique vibratory motion, for the purpose of preventing the straws from catching into the meshes of the screen and passing through it. A box is fitted to the outer end of the shoe, and made adjustable as to inclination, for the purpose of accelerating or checking the discharge from the end of the screen.

Claim.—The arrangement together of the swinging shoe H, when operating as specified,

fan C and adjustable box N, as shown and described, for the purpose set forth.

No. 34,606.—C. WHIPPLE, of Providence, R. I., and R. J. STAFFORD, of Smithfield, R. I.—Improvement in Machines for Combing Cotton.—Patent dated March 4, 1862.—This invention is designed more particularly for combing cotton, &c., having a short staple. Successive turts of the material are separated from the stock to be combed, both ends of each tuft combed on each side of the fibre, and the tufts deposited again in overlapping shingles and reunited in a continuous sliver, the noils and waste being made to pass off at a different point of the machine.

Claim.—First, the mode of operation, substantially as specified, by means of which a tust of cotton or other fibrous material, after it has been detached from the main body of the stock, is transferred to successive holding jaws, and subjected to the operation of being

combed alternately on each side and both ends, as set forth.

Second, the combination of a pair of vibrating feed rollers C with a series of jaws B B, having an intermittent rotary motion, substantially as described, for the purpose of separating the stock to be combed into tufts.

Third, giving to each series of jaws an intermittent rotary motion, substantially as described, for the purposes specified.

Fourth, a doffer cylinder H, in combination with the cylinder No. 3, so arranged as to receive the several tuits after they have been combed in successive overlapping layers, preparatory to being formed into a continuous sliver.

No. 34,607.—G. M. Zell, of Waynesville, Ohio.—Improvement in Water Elevators.—Patent dated March 4, 1862.—The bottom of the bucket is provided with a valve, operated by a lever, and a trough. On elevating the bucket its trough is brought over the trough of the curb box and lever tilted, so as to cause more or less water to issue from the bucket as the wheel is turned and the bucket raised.

Claim.—The combination of the wheel or pulley E, spout J, and bucket H, provided with the valve L and lever N, when arranged for joint operation, substantially as and for the

purpose set forth.

No. 34,608.—THEODORE ATTENEDER, assignor to Himself and R. H. GRATZ, of Philadelphia, Pa.—Improvement in Telescopes for Measuring Distances.—Patent dated March 4, 1862.—The claim and engraving explain the nature and object of this invention.

Claim.—The use in telescopes, spyglasses, &c., of a plain glass disk situated in the focus of the eye lens, a scale being marked on the disk, and that scale so graduated as to enable the observer to ascertain the distance of an object of given dimensions.

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No. 34,609.—JEHU BRAINERD, assignor to BRAINERD & BURRIDGE, of Cleveland, Ohio.-Improvement in Tanning.—Patent dated March 4, 1862.—This invention consists in a method of preparing the bark and leaves of a certain species of willow known as the Salix Grisea, (of Willd.,) for the purpose of tanning.

Claim.—The use of the Salix Grisca for the purpose of tanning, when prepared as set forth.

No. 34.610.—J. R. GILL, W. E. PALMER, and W. W. WEBB, of Alton, Ill.—Improved Clothes Bringer.—Patent dated March 4, 1862.—The sockets to which the bearings of the relier shafts are attached, are fitted loosely on the metal bars, which latter are provided at one and with pendant jaws, and at the other with a screw and nut, in connexion with an India ruber spring. The inner sockets have jaws on their lower sides. The jaws being placed over the edge of the tub, the turning of the nut serves to graduate the pressure of the rollers,

and clamp the device to the tub.

Claim.—The bars A A, provided with the jaws B B, in combination with the jaws M M, sockets G G, roller bearings D H, springs K K, and nuts L, fitted on the bars A A, and all

arranged for joint operation, substantially as and for the purpose set forth.

No. 34.611.—W. L. GREGORY, assignor to Himself and GARDNER LANDON, jr., of Amsterdam, N.Y.—Improvement in Skates.—Patent dated March 4, 1862.—This invention consists in securing the runner to the stock by means of wood screws attached to the tops of the kness of the runner, forming a dovetailed connexion, in connexion with nuts and sockets.

Claim.—The combination of the screws B' B' with the runner knees, caps D D, nuts C C,

and stock A, in the manner shown and described.

No. 34,612.—O. J. HALL, assignor to Himself and FRANKLIN DECKER, of Pittsford, N. Y.—Improvement in Railroad Chairs.—Patent dated March 4, 1862.—The claim and engraving

explain the nature and object of this invention.

Ulaim.—Clamping the two halves C and C' of the chair together by means of a single flat upring key k, as specified, when the said halves C and C' are matched together by a tongue and groove running horizontally under the base of the rail, as shown and described, and are provided with stops 8.

No. 34,613.—E. M. and J. E. Mix, assignors to W. T. Huntington and Harvey Platts. of libaca, N. Y.—Improvement in Calendar Clocks.—Patent dated March 4, 1862.—The day-of-the-month wheel is so constructed that by the use of a properly operated click to move the wheel and detent to stop it, one, two, three, or four teeth, as may be required, may be caused to pass the detent at the expiration of the month, and permit the movement of the index from the position which indicates the number 31, 30, 29, or 28, of the last day of one month, to that which indicates the number 1.

Claim.—The day-of-the-month wheel F, having three of its thirty-one teeth progressively corter than the remaining twenty-eight, and applied to operate substantially as specified.

No. 34,614.—G. W. RICHARDSON, assignor to Himself and G. M. WEED, of Grayville, Il.—Improvement in Harcesters.—Patent dated March 4, 1862.—The segment is placed aron the side of the draught pole, and has a guide fitted over its edge, so that the finger-bar may be secured at any desired height by means of a pin which passes longitudinally wough the segment, and serves for a bearing on the upper edge of the draught pole.

Claim.—The finger-bar D, segment b, and plate E, formed of one piece of metal, or of deacted pieces connected together and fitted on the axle a of the driving wheel A, when said atts are combined or arranged in relation with the draught pole C fitted on the axle a, and

is d in connexion with the pin j, or its equivalent, as and for the purpose set forth.

No. 34.615.—ALEXANDER SHANNON, assignor to Himself, T. W. WEATHERED, and E. B. Cherevoy, of New York, N. Y.—Improvement in Cartridges for Fire-arms.—Patent in 1 March 4, 1862.—This invention consists of a sectional cartridge, the powder being the perforated diaphragms so as to cause two or more separate and distinct explosions. sample in the piece, the first being designed to overcome the inertia of the ball by a comparato row explosion, and the last imparting the greatest momentum possible to the ball.

them.—The perforated diaphragm or diaphragms c d, producing a sectional charge, as The for the purpose specified.

No. 34.616.-F. W. SMITH, assignor to S. S. WHITE, of Philadelphia, Pa.-Improvement in Manufacture of Dentists' Pins.—Patent dated March 4, 1802.—The principal object of this invention is to provide for the manufacture of pins with a head at each end, suitable for artistial teth, manufactured according to the mode for which letters patent of the United States have been granted to S. S. White, that is to say, with heads at the outer ends of the pins, and it consists in a novel construction of dies for the manufacture of such two-headed pins.

Claim.—The construction of the dies de, and their arrangement relatively to the cutters

of and the bunch b, substantially as specified.



No. 34,617.—J. A. Welsh, assignor to Himself and R. McC. Davidson, of Xenia, Ohio.— Improved Cylinder for Grain Scouring and Threshing Machines.—Patent dated March 4, 1862.—This invention consists in casting the cylinder with a chill at its outer side, whereby a cylinder is obtained which will be kept in constant working order by use; the wear of the soit portion of the cylinder causing the hard outer edges to be kept sharp or prominent.

Claim .- A cylinder A for grain threshing or scouring machines, provided with trilsteralshaped teeth, and having its outer side cast with a chill B, as and for the purpose set forth.

No. 34,618.—N. B. WHITE, assignor to Himself and W. B. RHOADS, of South Dedham, Mass.—Improved Clothes-Wringer.—Patent dated March 4, 1862.—The shaft of the upper roll extends through the gear wheel, and fits in a groove in the hub of the corresponding gear, which latter is placed upon a vertical shaft supported by brackets, and is allowed a free upward movement. As the upper roll rises, the two gears are thus kept in connexion A frame underneath, upon which presses a strong spring, is connected to the head blocks on

top of the standards by rods, and serves to keep the rollers in parallel position.

Claim.—First, operating the rolls C and D by gears, one of which is moved vertically by the shaft of the roll, which rises and falls, substantially in the manner specified.

Second, the frame F, or its substantial equivalent, through which the power of the spring 4 is brought to bear on the roll, which rises and falls, for the purpose set forth.

No. 34,619.—J. P. Comly, of Dayton, Ohio.—Improvement in Treating Flax and Hemp to make them Resemble Cotton .- Patent dated March 4, 1862 .- The title and claim explain the object and nature of this invention.

Claim.—Cutting flax or hemp straw before it is broken, so as to separate the seed ends from the residue of the stock, and divide the fibre into equal or nearly equal lengths suitable for spinning by ordinary cotton spinning machinery, as and for the purpose specified.

No. 34,620.—C. F. BAXTER, of Boston, Mass.—Improvement in Filters.—Patent dated March, 11, 1862.—Upon the main pipe is placed an air chamber, in the lower part of which is a filter. Above the filter is a faucet. When both faucets are closed, water is forced by pressure through and above the filter, condensing the air in the chamber, and the filtered water is drawn off at the upper faucet. On opening the lower faucet, the upper one being closed, the condensed air forces the water down through the filter, and the impurities collected in the filter are carried off through the lower faucet.

-An air chamber so connected with a filter and filtering medium as to remove the

collected impurities of filtration, substantially as described.

No. 34,621.—ALEXANDER BIRKHOLZ, of Hartford, Conn.—Improved Composition Metal of Iron, Zinc, and Copper -Patent dated March 11, 1862.—The composition consists of cast iron, charcoal, copper, borax, and zinc, in proportions, which may be varied, the strength of which, the inventor says, is estimated at eight thousand pounds greater to the square inch than wrought iron.

Claim.—The introduction of cast iron into a composition composed of copper and zinc, in

about the proportion, substantially in the manner as described.

No. 34,622.—SAMUEL COLAHAN, of Cleveland, Ohio.—Improvement in Hay Presses-Patent dated March 11, 1862.—The pressure is first applied by means of the windlass, the levers being used when a greater compression is required to complete the operation.

Claim.—The special arrangement of the chain or rope M, pulleys L L', sheave 0, and windlass P, in combination with the lever R, pawl and ratchet wheel U T, and bottom K when these parts are arranged and operated as and for the purpose specified.

No. 34,623.--L. O. COLVIN and G. H. GARDNER, of Philadelphia, Pa. -- Improvement in Telegraphing by Light.—Patent dated March 11, 1862.—The invention consists in so combining a lantern, a shutter to shut off the light thereof, and an electro-magnet, that an operator at any distance from the light may, by opening and closing the circuit in which the magnet is placed, cause the shutter to alternately expose and conceal the light, and so produce the flashes of which the signals are composed; an alphabet being represented by combination of flashes of longer and shorter durations.

Claim.—The combination of a lantern or other illuminating apparatus, a reflector, a shutter, and an electro-magnet, to operate substantially as and for the purpose specified.

No. 34,624.—G. W. Cook and Z. E. B. Nash, of St. Paul, Minnesota.—Improvement is Pumps.—Patent dated March 11, 1862.—This invention consists of a submerged pump designed to throw a continuous stream. The swing valve is operated by the warped flange. the latter being bent across its surface in such a manner as to operate like a cam, when revolving with the shaft to which it is secured. An extra pipe is placed on the side of the chamber, and is designed to be used when the centre shaft is made solid.

Claim.—First, the warped flange a, in combination with the pipe f and cylinder, or water

chamber m.

Second, the double-acting slide or swing valve b, in combination with the flange s and chamber m.

Third, the extra pipe g, in combination with the flange a and chamber m, the whole being enstructed and operated in the manner and for the purpose described.

No. 34,625,—D. A. COURTER, of Beloit, Wis.—Improvement in Combining a Pistol with a Sword.—Patent dated March 11, 1862.—The hollow breech sets on the same vertical plane with the sword-blade, by which means it can be incorporated with the guard of the sword-hilt so as nearly to conceal it. The said breech is made longer than the breech-piece, so as to project above and below it, which serves to steady it and hold it in its proper relation to the barrel of the pistol.

Claim.—First, combining with a sword, a pistol with a transverse sliding breech-piece. Second, the hollow breech extending beyond the breech-piece, for the purpose of holding and guiding the same.

Third, combining the guard of the sword-hilt with the hollow breech.

No. 34,626.—A. B. ELV, of Newton, Mass.—Improvement in Chain Shot for Ordnance.—Patent dated March 11, 1862.—The object of this invention is to produce a chain shot suitable for firing from a rifled cannon, and consists of a cylindroconoidal or other convenient form of shot divided into two or more sections, connected in pairs by a chain from one section to the other of a pair, a suitable recess being formed in one or both of the sections to receive the chain when the sections are placed in contact with each other. A band of canvas or other suitable packing is used to hold the sections in place while the shot is loading, and also serves as a packing to protect the grooves of the gun.

also serves as a packing to protect the grooves of the gun.

Claim.—The projectile constructed in sections held together by bands that are to be ruptured by the explosion of the charge of the gun, and this only when the sections are held

by a chain contained within the projectile.

No. 34,627.—O. F. FITCH, of Morristown, Ind.—Improved Fruit Can.—Patent dated March 11, 1862.—The clamp is made in two parts, hinged on one side and provided with flanches, which, on being screwed together, secure the stopper and rubber disk together, and to the neck of the can.

Claim.—The clamp E, in combination with the stopper D and India-rubber strip C, in the manner and for the purpose set forth and described.

No. 34,628.—John Gault, of Boston, Mass.—Improvement in Chain Shot for Ordnancs.—Patent dated March 11, 1862.—This invention consists of an elongated hollow projectile with two or more movable sections formed by a longitudinal division of its body, connected by a chain or other means, the rear end being fitted with a band, or its equivalent, and the front end with a cap or nut which keeps the said sections together in compact form when inserted in the gun, and during the first part of its flight, and with a cavity or chamber between and within the said sections, to contain a charge of powder and a fuze for the purpose of bursting said band and cap and spreading the sections by its explosion. The fuze may be so regulated as to burst the cap and expand the sections at any desired distance within the range of the gun.

Claim.—First, the combination of the hollow sectional projectile connected with a chain, of its equivalent, enclosed and carried within itself, and the charge regulated by the fuze to

extend its sections at any desired point, as set forth.

Second, the securing the sections of the projectile at its front end or point with a cap or but, or its equivalent, as described and for the purposes set forth.

No. 34,629.—A. F. Gray, of Belleville, Ill.—Improvement in Water-Elevators.—Patent and March 11, 1862.—The shaft is provided at one end with a plate and arms for the purpose of coiling up a rope when too long for a single coil on the shaft. The chain is made of thinks, and joined to the bail in such a manner as to keep the bucket in a position to have is books eatch upon the tilting-rod, which has its ends bent and fixed to the front part of the lor and operates to draw forward the bucket. The trough is made to incline to conduct the water of at one side, a metallic plate being secured at the rear of the trough to prevent the water from falling back into the well.

Claim.—The combination and arrangement of the cylinder A with the recoiling plate and Ξ_{ab} B b b, ratchet wheel and gudgeon G, the flat chain H, the mode of fastening the rope & I, the form of the bail J for the attachment of the chain H, the peculiar shape of the cars α books K k adapted to the tilting-rod L, and the shape of the tilting-rod, and its mode of

attachment at M m.

Also, the plate N on the upper edge of the inside wall of the trough, in combination with the bottom of the trough O, inclining to the corner P, and the form of the box using the scale which accompanies the drawings as a guide for its proper construction, the whole being constructed, arranged, and operating substantially as described for the purpose set forth.

No. 34,630.—J. A. GREEN, of Henry, Ill.—Improvement in Cultivators.—Patent dated Larch 11, 1862.—This invention consists in bending the axle of the cultivator so as to pass.

over rows of growing corn, and by means of which the cultivator may be raised and lowered at will. A spring catch, in connexion with notches in a semicircular frame, serve to hold the cultivator in position when raised. By means of a lever attached to the front braces, and

extending back, the direction of the cultivator shares is regulated.

Claim.—These four features combined in one machine in the manner described: the first feature consisting in the main frame, the bowed and cranked axle, and driver's seat, arranged in respect to each other as described; the second, consisting in the arrangement of the tongue G, the lever H, and the driver's seat J, in relation to each other, as set forth; the third, consisting in making the main frame in two parts, arranging and elevating the driver's seat J and the frame E E L L and N thereon, and the bow of the axle therein, as set forth; the fourth feature consists of the bars O O, the frame E E L L and N, the swivel I, and the main frame, arranged in relation to each other as set forth.

No. 34,631.—L. A. GREEN, of Rocky Hill, Conn.—Improvement in Line-Holders for Meson Work, &c.—Patent dated March 11, 1862.—This invention consists in attaching a line to two brackets, which consist of two plates placed at right angles with each other, and fitting on opposite corners of the building. To one of these brackets is attached a frame containing a spool and ratchet. The tension of the line keeps the brackets in place without the use of nails. Pads are placed between the brackets and the wall to prevent the former from alipping.

Claim.—First, the employment of the brackets b, combined with the line a, for holding

and easily adjusting it (the line) in its proper place.

Second, the pad s, brackets b b, and line combined as and for the purpose described.

Third, the combination of the ratchet c, spool f, brackets b b, line a, substantially as and for the purposes described.

No. 34,632.-W. H. GWYNNE, of Brooklyn, N. Y.-Improved Apparatus for Making Water Gas.-Patent dated March 11, 1862.-The distributing box is made of metal, and has a circulating passage within it. It is provided with a finely perforated cover, for the purpose of passing the vapor from the water in a finely divided state upon the incandescent material with which the retort is filled after the distributor is placed therein, and also for delivering the vapor as dry as possible into the gas retort.

Claim.—The distributing box B, with its circulating and heating passage D, and its perforated cover or top C, the whole operating substantially as described and shown, for the

purpose set forth.

No. 34,633.—JAMES HARPER, of East Haven, Conn,—Improvement in Machinery for Making Paper.—Patent dated March 11, 1862.—This invention relates to certain improvements in what is known as the Fourdrinier machine, the improvements being intended to obviate a difficulty in couching from a wire-cloth by direct contact of an endless felt. The claim and engraving explain the invention.

Claim.—First, the combination with the Fourdrinier wire-cloth apron B and the couching felt G, so arranged as to couch the paper from the wire-cloth by direct contact of the pertorated cylinder E, when these parts are so arranged that the cylinders E and H support the wire-cloth B and the couching felt G, respectively, directly opposite their point of contact

with each other, substantially as set forth.

Second, the combination with each other, when arranged as described, of the Fourdrinier cloth B, couching felt G, and beater N, substantially as set forth.

No. 34,634 .- HENRY HAYWARD, of Chicago, Ill .- Improvement in Safety Paper .- Ratent dated March 11, 1862.—This invention relates to improvements in paper intended for bank notes and analogous uses, and consists in the employment of continuous lines of fibrous material as a means of designating the denomination or character of a note, coupon, &c., the paper being made in a single sheet, and the threads introduced while in the pulpy state, and worked into and among the fibres of the paper stock, so that they cannot be detached or withdrawn without destroying the paper or surface thereof. The threads or fibrous lines may be of different color or kinds, to designate varieties in the value or character of the sheet. Bright metallic or other particles may also be caused to adhere to the threads, and introduced within the substance of paper, in such condition that they shall permanently change their appearance with any attempt to remove the ink from the sheet.

Claim.—The described means of designating varieties in the value or character of printed

sheets of paper, in which threads of fibrous material are incorporated into and among the pulp, as described, to wit: the use of threads of different colors or characters, arranged sub-

stantially as specified.

No. 34,635.-J. D. EHLERS, of Baltimore, Md., and J. P. HERRON, of Washington, D. C.-Improvement in Pantaloons.—Patent dated March 11, 1862.—The claim and engraving ex plain the nature and object of this invention.

Claim.—In the construction of pantaloons and drawers, making a fall B on the posterior portion thereof, and securing the same to the waist A of the pantaloons or drawers, substan-

tially as described

No. 34,636.—D. A. HOPKINS, of Brooklyn, N. Y.—Improvement in Railroad Car Journal Boscs.—Patent dated March 11, 1862.—A movable plate is made to bear against the diaphragm by means of springs, holding it constantly but with moderate force against the inner surface of the box towards the wheel, permitting the diaphragm to rise with the axle as the interior plate is worn away, whereby dust is excluded from the interior of the box, and the lubricating substance longer retained. The stop-bar, which is used to restrict the end play of the axle, has a groove in that part of it next the end of the axle, and is so arranged with reference to the latter as to move in a direction across its centre, or nearly so, for securing an effectual lubrication of the end of the axle. The friction plate is constructed with a flange at each end, of such a height as to present a sufficient bearing surface for the collars of the axle, until that part of the plate between the flanges is worn through, said plate being used in combination with a seat made separate from the box, so that while they may be separated when removed from the axle and box, they remain attached to each other when in use, without the plate being liable to be so broken before being worn through, as to be unsafe for service.

Claim.—First, the combination of one or more springs with a movable plate bearing against the whole or a part of the diaphragm, substantially as set forth for the purposes stated.

Second, the grooving of the stop-bar, substantially as shown and described for the purpose

set forth.

Third, the construction of the friction plate with a flange at each end thereof, in combination with a removable seat or support, when said plate and support are constructed and combined substantially as shown and described for the purposes stated.

No. 34,637.—Amos Krotzer, of Woodville, Ohio.—Improved Clothes-Dryer.—Patent dated March 11, 1862.—The frames, consisting of five parts, are so arranged and connected by hinges as to be expanded in the shape of a square truncated pyramid when in use, the cords being kept strained by means of a spring-catch.

Claim.—The combination and arrangement of the frames a d, cord b, hinges c, and catches c,

substantially as and for the purpose specified.

No. 34,638.—William Mentzell and Alexander and J. W. Geddes, of Bahimore, Md.-Improvement in Lamps.-Patent dated March 11, 1862.-The claim and engraving exlain the nature of this invention.

Claim.—The jacket-tube a a a a, as described, in combination with the perforated bottom EE and outside cap F, forming an air chamber for regular draughts of heated air through be performinations of the jacket-tube c c, for the supply of oxygen at the point of combustion.

No. 34,639.—C. MESSENGER, of Warren, Ohio.—Improved Clothes-Wringer.—Patent lated March 11, 1862.—The standards are secured to a bar at their lower part, the end of the of the standards forming a clutch. To the upper cross piece is secured a screw, which If means of a nut is made to regulate the distance between the rollers. An endless apron stands to pass over the under roller, and another one to convey the clothes away from tween the pressure rollers. An adjustable clutch, working in a slot in the lower cross wee, serves to adjust the device to the size of the tub.

Claim.—The special arrangement of the adjustable clutch L, clutch B', springs S, cross

or K, adjusting screw P, in combination with the adjustable endless apron R and rollers

, and II, when operating conjointly in the manner and for the purpose set forth.

No. 34,640.—MARTIN MILLER, jr., of Vienna, Empire of Austria.—Improved Mode of betro-plating Steel Wire for Piano Strings, and other purposes.-Patent dated March 11, 72.—The inventor makes use of a solution of the cyanide of the metal with which the re is to be covered, and plates with alloys, by using an anode of said alloy and a solution of the cyanide of the metals which compose it. The wire is passed over rollers, one of which is metallic, and is connected with the positive pole of a battery, through a vessel containing the metallic solution and connected with the negative pole; the object being to First rust and preserve the original appearance of the wires.

Claim.—The production of steel or other music wire provided with a copper, silver, gold,

or other metallic coating, substantially in the manner and for the purposes set forth.

No. 34,641.—HENRY MORSE, of Natick, Mass., and DAN PERRY, of Attleborough, Mass.— Improtement in Water-Elevators.—Patent dated March 11, 1862.—The wheel is provided with sprockets to prevent the chain from slipping. It has also a groove, or slit, cut through in in the centre, for receiving a portion of each link of the chain and preventing the hain from twisting, and allows the escape of the water and ice from the chain. A tilting look is pivoted on each side of the covering. The front part of the hook has a projection then catches in the bracket as it rises, when the hook swings forward and strikes the front an of the well cover, causing the bucket to tilt and be emptied.

Claim.—The arrangement and combination of a hoisting chain and a hoisting wheel with

penings through its rim for the escape of the water, substantially as described. Second, the construction and arrangement of the hook K, when hung in the manner and or the purpose substantially as specified. Digitized by Google No. 34,642.—E. S. Muringer, of Philadelphia, Pa.—Improved Concentrated Food or Beef Tea.—Patent dated March 11, 1862.—The beef is prepared by first soaking, then boiling until it is reduced to one-fourth its original quantity. It is then clarified, and when cool, cut in pieces and dried.

Claim.—The concentrated food or beef tea described, when prepared in the manner sub-

stantially as specified.

No. 34,643.—Joseph Nason, of New York, N. Y., and Robert Briggs, of Brooklyn, N. Y., assignors to said JOSEPH NASON.—Improvement in Steam Radiators.—Patent dated March 11, 1862.—By the introduction of an interior diaphragm or tube extending from the bottom to the top and open at the top, an inward current of steam and an outward current of air are established, and the influent steam made to displace the air.

Claim.—The method substantially as described of constructing the tubes of steam radiators and condensers, with an interior diaphragm or dividing plate, or its equivalent, an interior

tube, in combination with a single steam chamber.

No. 34,644.—D. B. NEAL, of Mount Gilead, Ohio.—Improvement in Evaporating Pass for Saccharine Juices.—Patent dated March 11, 1862.—The pan is constructed with several apartments, the front ones of which are made of sheet iron, and the last of cast iron, for the purpose of boiling the sirup slowly at a low temperature.

Claim.—The employment of the pan, constructed as described, of combined sheet and cast iron, whereby the sirup may be boiled at a lower temperature, with the same fire, than

the juice, as is specified.

No. 34,645.—RESOLVED READ, of Brockport, N. Y.—Improvement in Machines for Cleaning and Assorting Beans.—Patent dated March 11, 1862.—The screen is divided into three sections separated by flanges, the meshes of the different screens being of different sizes for

separating the dirt and the large and small beans.

Claim.—The combination of the hexagonal screen constructed as described, flanges ec. spouts m n o, and case D, feed hopper H, spout I, and disk K, when arranged and operating

as and for the purpose set forth.

No. 34,646 .- N. A. RHOADS, of Waterbury, Vt.-Improved Clothes-Wringer .- Patent dated March 11, 1862.—The claim and engraving explain the nature and object of this in-

Claim.—In a clothes-wringing machine, provided with elastic rollers, the construction of either or both of such rollers, or, in other words, the arrangement of their operating surfaces, so that they may be at a greater distance asunder at their middles than at their ends, the whole being substantially in the manner and for the purpose as described.

Also, the arrangement and combination of the connexion and bearing bar G with the rubber springs g, the shaft H, and its came l, the whole being applied to the frame A and its rollers D D', as described.

Also, the application of each of the bars J J with the frame A by means of an adjustable fulcrum screw i, whereby the distances of the bar J and the bearing head of the screw from the frame A may be increased or diminished as circumstances may require.

Also, the arrangement of the shaft L and its cams p p with reference to the rollers D D,

the frame A, and the two bars J J, or their equivalents. affixed to the said frame.

No. 34,647.—ELISHA ROBBINS, of Milford, Mass.—Improvement in Picker Motion for Looms.—Patent dated March 11, 1862.—The foot of the picker staff is fastened to a rocker resting on a rail or support piece. Within the said rocker and support piece is arranged a radial arm, the inner end of which is jointed to or pivoted in the support piece, and the outer end similarly connected with the rocker at its heel. Two projections or guides extend downwards from the middle of the rocker, straddle the arm, and pass into an opening through the support, for the purpose of keeping the radius arm in place, and preventing the rocker arm from being thrown from its supporting rail. At the heel of the rocker is a stop which enters an opening of the support piece for the purpose of preventing the disengagement of the radial arm and its rocker during the rearward motion of the picker staff. The rocker arm is constructed with rounded projections at its opposite ends, to enter respectively two oil cup. arranged one in the support piece and the other in the rocker.

Claim.—My improved arrangement of the radius arm E, its spring F, and the guides $g \not \in$ viz., within the support piece D, and the rocker C, whereby they are covered and protected. from dust and accidental displacements or injury.

Also, the arrangement of the heel guide or back stop i with the rocker and the support

Also, the arrangement and combination of the oil cups with the rocker, the support piece. and the radius arm, applied to the latter and the rocker.

No. 34,648.—H. C. Sherman, of Buffalo, N. Y.—Improved Condenser for Stills.—Patent dated March 11, 1862.—A number of zigzag condensing pipes are arranged side by side in

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sections and parallel to each other; each section opening from a transverse supply pipe at the top and into a transverse pipe at the bottom, so that the alcoholic vapors which enter the supply pipe from the still, will be divided, equal portions passing through each section of the condensing pipe, thus making the condensation quicker and more perfect. The zigzag pipes are connected to the supply pipe at top, and to the discharge pipe at the bottom, by means of flanges so that either section may be removed without materially interfering with the operation of the condenser. A perforated cold water feed pipe is arranged beneath the condensing pipes in such a manner that a jet of cold water will be thrown directly against each section for the purpose of increasing the rapidity and completeness of the alcoholic vapors.

Claim.—First, making the condenser of zigzag condensing pipes, arranged side by side in sections, and parallel to each other, or nearly so, each section opening in and connecting to a transverse supply pipe at the top and a transverse discharge pipe at the bottom, for the

purposes and substantially as described.

Second, the combination of the sections B C D with the transverse discharge and supply pipes E and F, each transverse pipe having short pipes b', c', and d', &c., and $b \ge$, $c \ge$, $d \ge$, &c., to admit of an easy connexion and disconnexion of the sections thereto, for the purposes and substantially as set forth.

Third, the combination and arrangement of the perforated cold water feed pipe H with a

condenser constructed in sections, substantially as set forth.

No. 34,649.—C. W. SMITH, of New York, N. Y.—Improvement in Friction Matches.—Patent dated March 11, 1862.—Paraffine is designed to be used as a substitute for sulphur, beeswax, &c., on the ends of matches, both to communicate the flame to the wood, and protect the igniting material from the action of moisture.

Claim. The use of paraffine in the manufacture of matches, in the manner and for the

purposes described.

No. 34,650.—R. A. SMITH, of Newburyport, Mass.—Improvement in Fences.—Patent dated March 11, 1862.—The claim and engraving explain the nature and object of this invention.

Claim.—The mode of constructing each fence section, in order that two or more of them may be arranged and combined as specified, the said mode consisting in making it with two interlocking projections, and with the mortise arranged in each end of it, substantially as specified.

Also, the combination and arrangement of the connecting bar D with two fence sections, when constructed, interlocked and arranged together, substantially in manner as set forth.

No. 34,651.—J. A. SOUTHMAYD, of Jersey City, N. J.—Improvement in Vacuum Pans for Eraporating.—Patent dated March 11, 1862.—The plunger has attached to it a series of plates of wire-netting, which are plunged in and out of the liquid, and expose by this means a larger surface to evaporation. The inner pan is separated from the outer pan, except at the bottom, and the vapor condensing upon the inner surface of the dome of the pan does not run back into the liquid. The inner pan is jacketed to admit of the introduction of steam for heating purposes. The vapor enters a condenser, where, by the introduction of water falling in a finely divided stream, it is condensed and easily pumped out. For the escape of vapor not condensable, a pipe supplied with a valve connects the top of the condenser with the pump cylinder.

Claim.—The plunger or lifter, when constructed and operated in combination with evapo-

rating pans, as specified.

Also, evaporating pans, constructed and arranged in the manner and for the purpose set forth.

Lastly, the condenser and pump, constructed in the manner described, in combination with pans used for evaporating purposes.

No. 34,652.—H. N. STEARNS, of Chardon, Ohio.—Improvement in Churn Dashers.—Patent dated March 11, 1852.—By this invention the entire mass of cream is subjected to cutting and frictional action without unnecessary violence and agitation; the design being the rapid production of a large quantity of butter with comparatively little labor.

Claim.—First, a horizontal churn dasher, consisting of a crank shaft F, arms A, metallic

wires C, and rods B, all combined and arranged in the manner set forth.

Second, stretching the wires C between the arms A, by soldering the said wires in their hetallic plates D, and securing the latter within the arms A, as explained.

No. 31.653.—ZADOCK STREET, of Salem, Ohio.—Improved Cement and Tile Roofing.—Parent dated March 11, 1862.—The coment consists essentially of tar and pulverized coke or cinders, to which common salt or alum is added. The cement is first spread upon the roof; upon it the tiles are placed and pressed down, so that cement fills the joints; the whole is revered with a coating of the cement and sand spread upon the surface.

Claim.—A roof composed of a rigid body of any suitable material laid in and covered by

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cement, compounded substantially as set forth.

No. 34,654.—W. R. THOMAS and MORGAN EMANUEL, jr., of Catasauqua, Pa.—Improved Blasting Powder.—Patent dated March 11, 1862.—The claim explains the nature of this in-

Claim.—The blasting compound made of nitrate of soda, sulphur, ground bark, and chlorate of potash, in the manner substantially as and in about the same proportions set forth.

No. 34,655.—M. and S. G. TAFTS, of Mainville, Ohio.—Improved Apparatus for Exaporating Sugar Juices.—Patent dated March 11, 1862.—The heater is fixed and is connected with the pan at the bottom by a gate and adjustable spout. The pans are suspended from the ends of levers, which are transverse to the direction of the flue and oscillate upon pivots, so that the pans can be depressed or elevated. The levers are suspended from a carriage on the upper edge of a beam at right angles to the flue. By means of a gate on one side of each pan near the bottom, the sirup can be drawn from one pan to the other at the proper stage of evaporation. The bottoms of the pans form the top of the flue. By means of adjustable dampers the heat can be shut off from either set of pans at pleasure. The object of this invention is to draw off sirup in the process of evaporation from the sediment without inter-

rupting the process.

Claim.—First, the arrangement and combination of two or more sets of swinging adjustable pans E E' G G' with the flue C. heater A. and furnace B, all constructed, operated, and operating substantially in the manner and for the purpose shown and described.

Second, the combination with the pans E E' G G' of swinging levers F H and transversely

moving carriages dh, substantially as and for the purpose specified.

Third, the arrangement of the continuous open flue C and dampers I I', in combination with the pans E E' G G', as and for the purpose set forth.

No. 34,656.—MAURICE VERGNES, of New York, N. Y.—Improvement in Liquids for Exciting Galvanic Batteries.—Patent dated March 11, 1862.—The advantages claimed for this fluid over nitric acid are absence of unpleasant odor, less injury to health, greater economy, and the attainment of a more uniform current.

Claim.—The preparation and production of a fluid for use in galvanic batteries, in the place of nitric acid, composed or prepared with a solution of the two salts, bichromate and chlorate of potash, in connexion with peroxide of manganese treated with sulphuric acid, as described, the whole prepared substantially as set forth.

No. 34,657.—RICHARD VOSE, of New York, N. Y.-Improvement in Car Springs.—Patent dated March 11, 1862.—This invention is designed to obviate the objections to helical springs of ordinary construction, the violent concussion strains to which they are subjected rendering them soon ineffective.

Claim.—An improved compound spring, produced by interposing a packing of elastic gum, or the equivalent thereof, between the coils of a spiral or a helical metallic spring, sub-

stantially in the manner set forth.

No. 34,658.—C. J. WOOLSON, of Cleveland, Ohio.—Improvement in Cooking Stoves. Patent dated March 11, 1862.—The claim and engraving explain the nature and object of this invention.

Claim.—The use of an inside fire door or movable plate, attached by hinges to the inside upper corners of the front door frame of cooking stoves and by catches to the front edge of the horizontal lower fire grate, so as to retain the fuel in its place for the purpose of roasting, and to allow the inside door to be swung outward and upward, that coals may be drawn from the fire for the purpose of broiling.

No. 34,659.—CHARLES WRIGHT, of Newark, N. J.—Improvement in Tool Posts or Holders.—Patent dated March 11, 1862.—The hollow base of the tool post has a thread cut upon the inside to receive the thimble which supports the tool. The thimble has a tapering hole through it, and the screw portion is divided lengthwise into four parts to admit of expansior. The lower portion of the tool holder is tapered to correspond with the thimble, so that when drawn upward by the set-screw upon the tool the divided portions of the thimble are forced outward and bind firmly against the hole in the base.

Claim.—A tool post or holder constructed in the manner and for the purpose as specified.

No. 34,660.—Geo. Cessford, assignor to John S. and Merrit Peckham, of Utica, N. Y.—Improvement in Stove Dampers.—Patent dated March 11, 1862.—A circular register is seconnected to an outer movable plate or damper, by means of a metal rod attached to a point near the centre of the damper, as to cause the latter to open and close by the expansion and contraction of the rod without the intervention of levers or equivalents.

Claim.—The combination and arrangement of the register plate A, the damper B, and the

expansion rod F, all constructed and operating substantially as described.

No. 34,661.—PATRICK FOY, assignor to Himself and John Fitch, of New York, N. Y.-Improvement in Apparatus for Boring and Rifting Cannon.—Patent dated March 11, 1862.—

The apparatus is supported on a bed or frame, upon one end of which is permanently fitted a head block, and at the end nearest the cannon is a movable head block adjustable on the upper surface of the bed, which sustains a cylindrical tool stock receiving the screw that passes through the opposite head block. The screw is rotated and an end movement given the tool stock by any convenient power. The tool stock is formed with a groove on its outer surface inclined to correspond with that desired for the rifle grooves. A ring is held to the surface of the head block by guides, and carries a pin fitting in the spiral groove. This ring is provided with notches around its edge, into one of which a stop engages, by which means successive spirals or grooves are made as the tool stock passes through the cannon, the ring being turned one notch for each successive groove. On the end of the tool stock are placed segmental guiding blocks, with curved surfaces adapted to the inside of the cannon, and so jointed to a diagonal link connected and arranged with a disk and pins working in slots as to be adapted to cannon of greater or less calibre. An auxiliary shaft is used when the cannon is to be bored, the upper pinion being slipped off and placed on said shaft.

Claim.—First, the head block g, provided with the adjustable rings 4, pin 6, and stop q, together with the frame c and driving gearing, in combination with the screw i and spirally groved cutter stock h, the whole arranged and acting in the manner and for the purpose

substantially as specified.

Second. the guiding segments s s and plate t, arranged and acting as and for the purposes set forth.

Third, the auxiliary shaft u, provided with the gearing v m, in combination with the tool or content stock h and screw i, with their respective gears w l, substantially as and for the purpose specified.

No. 34,662.—W. T. GRANT, assignor to Himself and J. S. SNYDER, of Jacksonville, Ill.—
Improvement in Machines for Grading and Excavating.—Patent dated March 11, 1862.—An adjustable lever provided with a pawl extends up between two segmental racks on the main frame, and is so connected with the axle of the forward truck that by moving it forward and back, the depth of penetration of the share may be graduated as desired. The main frame is formed of two longitudinal parts, the back of one being connected to the other by a link rod, and their front ends fitted to a shaft connected with the front truck, by which means the machine is adapted to the irregularities of the surface of the ground.

Claim. - First, the arrangement of the tongue S and truck M with the driver's seat R, and

the oscillating adjustable lever P, as shown and described.

Second, the arrangement of the two parts of the main frame d s with each other, in the manner shown and described, so as to be separately self-adjusting in respect to the surface of the ground, all as set forth.

No. 34,663.—Gustavus Hammer, assignor to Holstein & Hammer, of Cincinnati, Ohio.—Improved Machine for Framing Oval Mouldings.—Patent dated March 11, 1862.—The outer or guiding frame is made more prolate than the oval to be moulded, by which means the eccentricity of the inner frame is accommodated to the fixed cutting tool. A spring keeps the frame in its place, and by means of the sleeves can be raised or depressed. The frame is fed under the cutting tool by means of a ratchet wheel so geared as to move in accordance with it.

Claim.—First, in combination with stops F F and feed wheel E, outer frame H, or its equivalent, surrounding frame I, and having a contour differing from the same, when so adapted to stops F F, and the form of the frame I, as to cause the latter to be fed under cut-

ter head B appropriately thereto, substantially as described. Second, the arrangement of standard G, brackets f, small sleeves g h, spring l, and lever

s, substantially as and for the purpose set forth.

No. 34,664.—PHILANDER SHAW, assignor to C. E. Hodges and N. D. Silsbee, of Boston, Mass.—Improvement in Writing Tablets.—Patent dated March 11, 1862.—The covering preparation is composed of a spirit varnish, alcohol and shellac, mixed with powdered emery for dark or pulverized pumice stone for light colors.

Claim.—A tablet formed of wood compressed to resist the indenting action of pencils or Cayous, and covered on one or both surfaces with a preparation having a suitable tooth to receive marks for crayons or pencils. Also such a tablet when formed by compression so as to reave a raised border or frame on and around one or both surfaces of the tablet and integral with it.

No. 34,665.—T. J. Young, assignor to Himself and John Elder, of Philadelphia, Pa.—

laprocement in Counting Machines.—Patent dated March 11, 1862.—The object of this inrenton is to count the strokes of an engine. The strokes of the engine communicate a

Thratory motion by means of parallel arms to a pawl, which catches against cogs upon the
first numbering wheel and causes it to revolve, and after ten strokes to complete its revolution. The other wheels are caused to revolve proportionally to the revolutions of the first

wheel. Upon the edge of each wheel is marked the numbers 1, 2, 3, &c., thus enabling the

number of vibrations to be read through the slots in the outer casing. Plates loosely

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attached to the rods and the shafts are inserted between the hubs of the numbering and cog wheels, and by pressure of a spiral spring are caused to bear against the hubs with force suf-

ficient to prevent one wheel from communicating its motion to the others.

Claim.—The numbering wheels 1, 2, 3, &c., with their projections and the plates G G, in combination with the cog wheels 7, 8, 9, &c, and the plates I, when the said plates G and I are prevented from turning by the rods H and J, or their equivalents, and when the whole of the plates and wheels are acted on by the spiral springs, or their equivalents, as and for the purpose set forth.

No. 34, 666.—RICHARD MONTGOMERY, of New York, N. Y.—Improvement in Ordnance— Patent dated March 11, 1862.—Metal bars or tubes may be inserted into each alternate corrugation for the purpose of additional strength. In case of tubes being used longitudinally they may serve as barrels for small projectiles. The different parts of the cannon requiring more or less strength are provided with more or less sections of corrugated metal. The part are secured to each other by means of bolts.

Claim.—First, incasing a longitudinally corrugated cylinder with a series of corrugated layers divided transversely in sections, the corrugations of which fit into each other, and run around in the direction of the curves of the arch, as described.

Second, in combination with the outer and inner cylinder thus formed, the use of the hol-

low tubes or bars a a a a, as and for the purposes set forth.

Third, in combination with the outer and inner cylinder thus formed, the mode described of securing the several parts thereof to each other and to the breech of the carnon—that is to say, the bolts e and f, arranged as set forth.

No. 34,667. ELLEN B. BOYCE, of Greenpoint, N. Y .- Improved Washing Machine.-Patent dated March 18, 1862.—The finer and smaller pieces of clothing are placed between the rubber and centre piece, and the larger pieces outside the rubber, so that not only a rubbing action on the clothes is effected, but converging eddies meet in the rubber and cause circulation of the water through the mass.

Claim.—The arrangement as described, and in combination with each other, of the contrgated or ribbed and grooved bottom 1, corrugated or ribbed sides 2, corrugated or ribbed centre piece 3, lever 4, rings 5 5, and rounds or slats 6, as set forth for the purpose specified

No. 34,668.—R. D. CARY, of Philadelphia, Pa.—Improvement in Succepting Machines. Patent dated March 18, 1862.—Each broom is attached to a curved handle, one end of which moves upon a pivot on a curved rod extending out from the bolster of the wagon. The outer end is attached to the connecting rod. By this means the forward motion of the wheek communicates to the brooms an oscillating movement. The lugs are at an angle, so that when the connecting rod is at the highest point on the wheel, one end of the broom hardle is depressed, and, being arranged as a lever, the broom which is attached to the other end is elevated. The handles of the central brooms are attached to the underside of the handles of the side brooms, and move, therefore, in connexion with them. Scrapers can be substituted for brooms. The sprinkling tube is adjustable, and can be lengthened at pleasure.

Claim.—First, combining and arranging one or more brooms I with the travelling wheels of a wagon or cart, or with intermediate gearing, substantially as described, so as to gree 3

sweeping movement to the brooms, substantially as and for the purpose set forth.

Second, the lugs i i i, or their equivalent, constructed and arranged, in relation we the connecting rods M, substantially as described, for the purpose of raising the brooms in their backward movement, as set forth.

Third, the arrangement of central brooms N with the side brooms I, or in lieu thereof.

substantially in the manner and for the purpose set forth.

Fourth, the combination and arrangement of scrapers with a sweeping machine, substattially as described, for the purpose set forth.

Fifth, combining and arranging the sprinkling tube O with a sweeping machine, substantially in the manner described, for the purpose set forth.

No. 34,669.—NATHAN CHAPIN, of East Saginaw, Mich.—Improved Apparatus for the Manufacture of Salt.—Patent dated March 18, 1862.—This invention is explained by the

claim and engravings.

Claim.—First, submerging a doubly inclining floor in a vat of brine, with its two marginelevated to the surface, separating the brine in two bodies, upper and lower, while the heat therein is connected through the floor, and combining with said floor metallic partitions for transmitting heat direct through said partitions and brine from the more heated to the asset heated sections of the vat for rapid equalization of temperature, while the brine is thereby detained to a moderate flow in passing from one end of the vat to the other.

Second, adding to said combination submerged furnaces in both bodies of brine, paralliwith each other, for cleaning in the lower while granulating in the upper body, as described

Third, adding still to this combination perforated covers over a steam chamber connecting said meline plane floor with the salt bins, for draining chlorides from the salt after raking and before dumping into the bins.

Fourth, combining with this entire apparatus opening covers over the building enclosing

it for solar assistance in artificial evaporation, as described.

Fifth, placing partitions upon the sides of the submerged furnaces, as described, for prevening the boiling brine thereon from mixing with the main body and interfering with its quiet precipitation of impurities.

No. 34,670.—James Cochrane, of Harburn, Scotland.—Improvement in Wet Gas Meters.—Patent dated March 18, 1862.—If any water is removed from the compartment, the height of water on the measuring chamber remains unchanged, but the float sinks down, and closes the gas inlet by an attached valve. The object is to prevent removal of water through the water-supply pipe.

Claim.—The enclosing of the float of the gas inlet valve in a special chamber or compartment, which is separate and distinct from the main water or measuring chamber of the meter, and the introduction of the lower end of the water-supply pipe into such separate chamber,

for the purpose described.

No. 34,671.—A. COLBURN, of Leominster, Mass.—Improved Mode of Attaching Horses to Vehicles and Detaching them therefrom.—Patent dated March 18, 1862.—A yielding catchbar is secured in ferrules on the ends of the thills, which latter are attached to the animal by the said catch-bars engaging with correspondingly slotted plates attached, one on each side of the horse. By means of a strap attached to the draw-bar, and passing over the hames to the carrage, the draw-bar is detached from the plate, and the animal released from the carriage when desired.

Claim.—First, the mode described of attaching horses to vehicles by means of the draw bar C, draw-pins D, and double-slotted plates E I J, when combined and arranged to operate

Second, the combination of the strap H, rings f, draw-bar C, spring e, and slotted plates E I J, when arranged to operate in the manner and for the purpose set forth.

No. 34,672.—A. O. CRANE, of Hoboken, N. J.—Improved Convertible Boat, Bridge, and Test.—Patent dated March 18, 1862.—The bottom of the boat is constructed of boards secured to transverse strips. The ends of the boat are secured to the bottom by hinges or joints, so as to be adjustable in an inclined position or spread out lengthwise. The sides of the boat are hinged at the bottom, and consist of two parallel bars connected by uprights and braced by truss bars. Canvas may be placed around the boat, secured by cords. When used for a tent the boat is inverted, and uprights placed at the corners and canvas attached to the sides. The construction admits of the whole being folded in a small compass for transportation.

Claim.—The combination of the uprights or supports E and canvas F with a folding boat A A' c c, constructed substantially as and for the purposes explained, either with or without

Also, the adjustable rowlocks C, fitted loosely in the bars ϵ , and employed in connexion

with buttons D, pivoted to the bars g, as and for the purposes set forth.

Also, securing the end pieces c c and sides A' of the boat in proper position by means of the sockets j at the ends of the sides A, and the cross-bars i on the outer parts of the end pieces c, in connexion with the hooks and staples k l, substantially as shown and described.

No. 34,673 .- W. H. DEVIAR, of Valley Township, Mo. - Improved Amalgamator for Gold and Silver.—Patent dated March 18, 1862.—The machine consists of an inclined pump, with a hopper attached to the upper part of the barrel, and connected by a valve, opening and cosing with the motion of the piston. The lower part of the barrel is filled with mercury. The hopper contains the precious metal in a finely divided state, mingled with water. each stroke of the rod the metal passes through an oscillating sieve into the barrel, and is then forced by the plunger through the mercury into a reservoir, where a complete amalgamation is effected by the action of a pair of revolving beaters.

Claim.—Forcing the pulp containing the precious metal up through the column of mercury, substantially in the manner described, for the purpose specified.

No. 34,674.—WILLIAM EBBITT, of New York, N. Y.-Improvement in Boxes for Car Aries.—Patent dated March 18, 1862.—The bearing is chilled at its ends and bearing surface, so as to render it less liable to wear than the usual composition, the object being to prevent the increase of end-play, and consequent concussion thereby.

Claim.—The employment of the chilled iron bearing f, for the axle a, fitted and acting

substantially as and for the purpose specified.

Also, the metallic collar 2, permanently formed on or attached to the axle a, when enclosed within the chamber e, that has an opening at the bottom, said collar forming a centrifugal dust and dirt excluder, as and for the purposes set forth.

No. 34,675.—E. EDWARDS and JOEL COWEE, jr., of Keene, N. H.—Improvement in Machines for Cutting Chair-backs.—Patent dated March 18, 1862.—The pieces to be cut are placed in

a series of beds or seats formed in the periphery of a cylindrical revolving table, which carries them forward to the cutting tools arranged on each side of the table, so as to shape both edges of the chair-back at the same time. The cutting tools are made similar to a circular saw, with the addition of blades projecting from the side of the saw-plate sufficiently to cut away the surplus material in advance of the saw. The tools are mounted in oscillating frames, and are operated to and from the work by a series of patterns attached to and carried by the table.

Claim .- The combination and arrangement of the oscillating cutting tools B B, the revolving table A, and patterns C C, operating substantially as and for the purposes set forth.

No. 34,676.—Thaddeus Fairbanks, of St. Johnsbury, Vt.—Improvement in Platform Scales.—Patent dated March 18, 1862.—The scale is so constructed as to admit of its parts being folded together into a small bulk, to facilitate transportation. The upright pillar folds down upon the platform, and is held in that position by a lug and ear, and also by a loop, which slips over the end of a screw upon the top of the pillar. The beam and attachment, without any separation except the removal of the large poise, folds into the pillar like the blade of a knife, and is fastened by a double-acting bolt extending lengthwise along the top of the beam cap, that it may be firmly held, and also protected against theft. The poise fits into a socket in the platform, and, to avoid misplacement, the cover is confined by a chain. The steel gate is hinged, to admit of the folding of the upright.

Claim.—First, securing the pillar B to the base, and supporting it in both the upright and horizontal positions, by means of the lugs D E and ears a, or their equivalents, substan-

tially in the manner described.

Second, the employment of the dog F, in combination with the folding pillar B, for the

purpose of readily securing and releasing the latter when in the upright position.

Third, folding the beam K and its attachments against or within the pillar B, substantially

as and for the purpose set forth.

Fourth, the double-acting cap bolt N, in combination with the folding cap H and pillar B, for fastening the said cap H, in both the folded and extended positions, by the same bolt substantially as specified

Fifth, the combination of the loop or handle g and screw G, for tightly confining the pillar

B to the base when in the folded condition, substantially as shown.

Sixth, stowing and confining the poise W within a pocket or recess P in the platform. substantially as and for the purpose set forth.

No. 34,677.—Joseph Firmenich, of Buffalo, N. Y.—Improvement in Dermopathic Instruments.—Patent dated March 18, 1862.—This instrument is designed for the treatment of disease by acting upon the skin. Its construction and operation will be evident from the

Claim.—A dermopathic instrument constructed substantially as described, having a cylinder or cup which contains the puncturing needles, and a medicinal preparation in contact with the needles, so that the skin of the patient may be punctured and the medicine infused

at one operation of the instrument, as set forth.

No. 34,678.—J. E. Fisk, of Salem, Mass.—Improvement in Dry Gas Meters.—Patent dated March 18, 1862.—The vibrating rods extend up from the centre of the diaphragm pistors. through the partition D, just above which each rod is hung by means of horizontal journals in a thimble socket, so as to vibrate vertically. Each of the joints thus formed is enclosed in a flexible sleeve of a taper tubular form. The rods are connected at their upper ends by means of horizontal arms, which, in connexion with a crank shaft that actuates the gas valve, transmit the motion of the flexible portion of the diaphragms to the registering gear by means of a worm and screw wheel. The gas chest has a permanently fitted top, and from its base project cars resting upon extensions of the valve seat and fastened thereto by screws, thus rendering it easily detachable. The lower end of each rod terminates in a cross, and attaches above the cross directly to the upper shield of the diaphragm and indirectly at the extremities of the cross, through horizontal links, to the other three shields.

Claim.—First, the vertically vibrating rod or rods I, in combination with the diaphragm or

diaphragms of a gas meter, for the purpose set forth.

Second, the detachable gas valve chest D1, constructed as described, in combination with

the diaphragm chambers and the gearing chamber, for the purpose set forth.

Third, the combination with a valve M, operated substantially as described, of the vibrating rods I of the diaphragms, and the connecting arms K of the crank shaft L, for the purpose set forth.

Fourth, the flexible sleeves J, substantially as and for the purpose set forth.

Fifth, attaching the diaphragm C to the vertically vibrating rod I, by means of the cross c on the end of the rod, and the connecting links e e e e, in the manner and for the purpose described.

Sixth, the thimble socket g, and rocking journals f, of the vibrating rod, for supporting the diaphragms and allowing the rod to vibrate, substantially as described.

No. 34,679.—W. A. FOSTER, of Fitchburg, Mass.—Improvement in the Means of Operating Cut-off Values.—Pannt dated March 18, 1862.—The link has a double rocking motion given to it by the two eccentrics, and is designed to be used instead of the sword arm, (which is vibrated by a single eccentric on one of the shafts,) and may be so adjusted by setting the two eccentrics that the required motion may be imparted from it to the cut-off.

Claim.-Operating the cut-off valve by the link F, which operates the main valve, sub-

stantially in the manner specified.

No. 34,680.—MICHAEL GALVIN, of Scranton, Pa.—Improvement in Hand Tenoning Machines.—Patent dated March 18, 1862.—The box which holds the wood, upon which the tenen is to be cut, is open at both ends and top, having side pieces projecting in front, upon which is secured a cap, by which an up and down motion of the wood is prevented. A graduated sliding scale is fitted in the bed piece at one side of the box and secured in position by a thumb screw under the box. In the sliding rule is secured a stop, against which the wood to be tenoned is placed and adjusted by the scale to the length of tenon required.

Claim.—The combination of the sliding scale H, stop I, thumb screw J, with the box A,

cap C, and clamping screws D E, when arranged and operating in the manner and for the

purposes described.

No. 34,621.—Daniel Gilbert, of Middlefield, N. Y.—Improvement in Wheel Vehicles.—Patent dated March 18, 1862.—The axles are suspended from the bolsters of the vehicle, and bear squirst friction rollers. The wheels are loosely attached to the axles, so as to have an independent motion.

Claim.—The rotating axles H M, with the friction roller bearings F F G G, in combination with the wheels O, placed loosely on the arms a of the axles, as and for the purpose set forth.

No. 34,632.—B. D. GODFREY, of Milford, Mass.—Improvement in India-rubber Boots and Shors.—Patent dated March 18, 1862.—The claim and engravings explain the nature of this

Claim. - A double India-rubber sole for boots and shoes, the two portions being each vulcanized in a mould, and so formed that their surfaces of contact shall be exactly adapted the one to the other, and will adhere to each other when the cement is applied, without being held pressed together for the purpose specified.

No. 34,683.—EARL GUYER, of Wolcott, Vt.—Improvement in Stoves.—Patent dated March 18, 1862.—The claim and engravings explain the nature of this invention.

Claim.—First, an auxiliany stove with hollow non-conducting walls, made in two parts and with hinged side and top doors, and with a passage for a draught flue for use in connexion

with an ordinary cook stove in the manner described.

Second, in a non-conducting auxiliary stove, which is capable of being wholly removed from an ordinary cook stove after having been made to envelop the same for a season, the combination of the front stationary fender portion U, and the top and side hinged portions BDD, whereby the top of the stove can be exposed at top and sides, and the cook at the same time shielded from the intense heat, as described.

No. 34,684.—EARL GUYER, of Wolcott, Vt.—Improvement in Saw-Mills.—Patent dated March 18, 1862.—The inclined rails are hinged at one end to bars having transverse shoes stacked to their respective ends, and grooved underneath to fit over slides. The other ends of the rails are supported on the bars by means of an arm and set screw, the arm playing freely in a slot of the bar. On the under side of the flooring are arranged elbow levers connected with the bars of the inclined rails by vertical pins. The levers are connected with exh other by a longitudinal rod which fits in a socket of the rod at one end, the other end lasing up at a right angle through the flooring. By means of a lever pawl, in connexion with a trip and attachments, each end of the log to be sawed is moved on the carriage at light angles to its motion, and the inclined rails adjusted out of the way to admit of the gigging back of the carriage. The head block may be independent of the tail block in its motion, so that the two rails are moved in and out at proper intervals by the carriage traversing back

and forth, and the automatic operation continues until the log is sawed up.

Clam.—The combination of the inclined rails I I', lever arrangement L L M N, and attachments mar Q R of the carriage E, substantially as and for the purposes set forth.

No. 34,625.—John M. Hathaway, of New York, N. Y.—Improvement in Explosive Shells for Ordnance.—Patent dated March 18, 1862.—The diverging barrels are inserted in the body of the shell, and contain powder and bullets to be discharged either previous to the explosion of the shell or simultaneously. The concussion fuse of the shell is connected with the powder in the barrels.

The lead ring near the point of the shell will be forced downwards when the bomb starts, and thus fill up the grooves in the cannon, and prevent windage. The circular Froove on the shell prevents the ring from being pushed down too far. The elastic base and terrogated metal attached are also designed to prevent windage. The base revolves on the in f, and the length of the fuse passing through and along a circular groove in the base can

thus be regulated. The explosion of the powder expands the conical ring and the divided washer from the pin, by which means the base of the shell is detached. The tapering sheet metal spring sustaining the detonating plug, will receive a slight blow which otherwise might explode the shell, but on a heavier blow the springs allow the plug to strike the detonating powder.

Claim.—First, the arrangement of the diverging barrels g g, connected together at their base by the circular groove 8, surrounding the chamber h, and fired in the manner specified. Second, the lead ring c, provided with a corrugated sheet metal band, in combination with the circular and longitudinal grooves 4 at the tapering end of the bomb, as and for the purposes

set forth.

Third, the elastic base b, in combination with the tapering corrugated metal d, in the manner and for the purposes specified.

Fourth, the disk e, through which the fuse i passes, when fitted as set forth, to regulate the

length of said fuse, as specified.

Fifth, in combination with the base b, and disk c, the pin f, divided washer 6, and conical ring 7, for the purpose set forth. Sixth, the tapering sheet-metal spring l, constructed as specified and applied to sustain the

detonating plug k, as set forth. Seventh, the rollers 2 2, arranged and applied as shown, to take the rifling grooves, for the purposes specified.

No. 34,686.—T. A. HAVEMEYER and HENRY SCHNITZSPAN, of New York, N. Y.-Improved Carriage for Sugar Moulds.—Patent dated March 18, 1862.—The adjustable plats are supported by posts fixed on the lower frame, and are provided respectively with curved arms, reversed on the upper and lower plates. By means of rods projecting from the posts. passing through slots made in the plates and secured by nuts, the curved arms are adjusted to receive moulds of different sizes. Conical recesses are made in the lower frame to receive the tips of the moulds. A caster-wheel is placed on the front part of the frame, which is bent so as to form a recess to admit of a large-sized wheel—the arbor being fitted in a hollow post, which supports the front part of the plates.

Claim. First, the adjustable plates G II, provided with arms ff', and arranged or applied

to the carriage, substantially as and for the purpose set forth.

Second, in combination with the adjustable plates G H the frame A, provided with recesses

k to receive the tips l of the moulds, as specified.

Third, providing the frame A with a recess e at its front part or end, as shown, when said recess is used in connexion with a hollow post E to receive the arbor c of the caster-whel C, and said post is attached to frame A, to support the front ends of the plates G H, as set forth Fourth, the combination, construction, and arrangement of the parts shown and described,

to operate as and for the purpose specified.

No. 34,687.—M. L. HORTON, of Claremont, N. H.—Improved Mop-Head.—Patent dated March 18, 1862.—The mop-holder is made adjustable by means of a ratchet arm attached to its end, and sliding into a socket in the mop-handle. A dog attached at one end of a spiral spring holds the ratchet arm firmly in position. The bent ends of the mop-holder slide in grooves on the extremities of a cross-piece upon the handle.

Claim.—The combination of the parts A and C, and adjusting them, or firmly holding them in any required position, by means of the ratchet arm B, dog E, and spring d, operating as

described and for the purposes set forth.

No. 34,688.—J. J. JOHNSON, of Kalamazoo county, Mich.—Improved Tanning Process.—

Patent dated March 18, 1862.—This invention is explained by the claim.

Claim.—The employment of the liquor, compounded of fermented bran, water, common salt, and sulphuric acid, substantially in the proportions and manner specified, and its com bination with the solution of lime and wood-ashes in water, and with the stuffing of fish-oil alcohol, flour, paste, and tallow, substantially in the proportions and manner set forth.

No. 34,689.—C. MEYER, of New Brunswick, N. J.—Improvement in Boots and Shoes.—Patent dated March 18, 1862.—This invention is designed more particularly for fishermen of boatmen, who have occasion to use the foot in belaying a rope, as, when run out from windlass in casting a seine or drawing it in, the foot is made to retard or guide its movements

Claim.—So extending the width of the shank of a boot or shoe sole that when applied to boot or shoe said sole shall form a lateral wearing protection on the back side of the boot shoe, in the manner and for the purpose set forth.

No. 34,690 .- J. MILHOLLAND and J. J. LAHAYE, of Reading, Pa. - Improvement in Journal Boxes.—Patent dated March 18, 1862.—Between the back of the box and a plate I is place a cork packing, fitting upon the enlargement of the axle. The top of the cork is severed that one end overlaps the other, the portions being kept in contact by a metal clip, and the edges are surrounded by a metal strap connected at its ends by a spiral spring, thus forming a tight joint around the axle, and preventing the escape of oil and penetration of dirt. The

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front end of the box is made to bear against cork blocks placed in recesses near the edges in the cover so as to prevent oil from escaping at the joints. On the lower end of the cover is a hollow projection communicating with the interior of the box, the upper edge of the proection being sufficiently high to receive only the proper quantity of oil necessary for the proper lubrication of the journal, so that no more can be introduced. Upon the projection is placed a hinged lid, which is kept closed by a strong spiral spring. The lid is recessed for the reception of a cork packing to bear upon the top of the projection, and is also provided with a socket for the insertion of a bar to raise it. The upper plate L of the lubricator is curved, the wick on the plate being kept by the action of the spring in contact with the axle, and the ends of this plate are provided with ribs to take the pressure of the springs against he axle, so as to prevent the wicking from being rapidly worn away.

Claim.—First, the cork packing J and the detachable plate I, when both are arranged in the rear of the box and confined therein by the recess t and key D, as and for the purpose set

orth.

Second, the cork packing J, severed at one point, in combination with the strap ** and pring p, the whole being constructed and arranged substantially as and for the purpose specified.

Third, the cover E, having a recess f filled with cork and applied to the front of the box,

in the manner and for the purpose specified.

Fourth, the hollow projection G, the lid H, with its dovetailed recess, containing the cork packing k, the spring for depressing the lid, the socket l, or its equivalent, the whole being stranged and combined with the detachable cover E, as and for the purpose set forth.

Fifth, the projections v v, applied to the plate L, substantially in the manner and for the

urpose specified.

No. 34,691 .- RICHARD MOHLER, of Lancaster, Pa .- Improvement in Smut Machines. stent dated March 18, 1862.—This invention is designed as an improvement upon a machine stented to said Mohler on July 24, 1860. The branch arch may be attached to the side of the main tube at any convenient point. The mouth of the arch fits over the scourer, and

rain is fed into the hopper, a suction blast being made to draw up the screenings, &c.

Claim.—The branch arch K, with its tube L, hopper V, and connecting link k, when comined with the main arch and its chambers, as specified, for the purpose and in the manner et forth.

No. 34,692.—W. P. PARROTT, of Boston, Mass.—Improvement in Method of Laying Stone, c.. under Water.—Patent dated March 18, 1862.—A framework of piles is erected above re place where the masonry is to be laid, and guiding lines are marked upon it. The stones refitted to each other on shore, and the place each is to occupy determined, and the stone umbered accordingly. When the stone work is built under water each stone can be lowered its proper place, which is determined by the lines upon the frame. Two or more guide ds falling into holes made on the outer surface of the stones, and projecting above the ater, enable the engineer to see that each stone is placed accurately. A level and plummet rejecting above the surface of the water indicates the proper level of the stone.

Claim.—The method, substantially as described, of laying stone wall or masonry under

:ater.

No. 34,693.—T. F. REILLY, of New York, N. Y.—Improvement in Rotating Projectile for mooth-bored Ordnance.—Patent dated March 18, 1862.—In the base of the bore of the gun breech-piece is adapted to be firmly held so that it cannot be rotated, its rear end being provided with two projections fitted into recesses in the gun, and its front part being forked to correspond with the rear of the projectile, one side of each projection being straight and the opposite side twisted or forming uniform spiral inclined planes. Between the plane faces of the projections are two sectoral spaces which receive the powder, placed in bags or cartridges of proper form. On the explosion of the two quantities of powder, a spinning or twisting motion is imparted to the projectile. The cannon is supplied with two touch-holes leading one to each space containing the cartridge, so that both charges shall be fired at the same i.me.

Claim.—First, so forming and arranging the projectile, the explosive material, and the interior of the gun, that the explosion shall act directly upon the shot, in such manner as to

give it a rifle motion, substantially as set forth.

Second, controlling the twisting or rifle motion of a projectile, rotated within a smooth-and gun, as described, by means of surfaces b b c c, arranged to act upon each other in the manner and with the effect set forth.

Third, forming the parts B' B', or equivalent, abutments at the base of the bore of the gun apon a piece B, separate from the gun, for the purpose set forth.

No. 34,694.—Joseph Rohmer, of Chicago, Ill.—Improvement in Grain Winnowers.-Fatent dated March 18, 1862.—The adjustable partition is hinged between the two forward - sine posts, and can be so arranged as to regulate, in connexion with the fan, the mixture of the grain with the chaff. An adjustable bottom is hinged to the hopper to regulate the

amount of grain to be fed. An adjustable spring is placed on the back of the rea fare post, and, in connexion with a shaft, ratchet wheel, and cord, serves to regulate the degree of vibration of the sieve frame.

Claim.—First, the arrangement of the adjustable partition L, sieves g g', and fan D. cas;

structed and operated as and for the purpose set forth.

Second, the arrangement of the adjustable trap bottom B, connected with the sieve are i, the arm r, strap l', and adjustable spring z, as and for the purpose set forth.

No. 34.695.—F. M. RUSCHHAUPT, of New York, N. Y.—Improved Apparatus for Proving Malt Liquors from becoming Flat.—Patent dated March 18, 1862.—The invention conof a vessel divided into two compartments, one of which contains diluted acid; a perforated cylinder containing a carbonate, dips into the acid, and by means of an attract of projecting out of the cover of the vessel can be raised or lowered, so that the great produced at pleasure. The gas passes into the compartment through a tube, and is water by the water contained in it, thence passes into the beer, which it is desired to impress to

Claim.—The improved arrangement for the application of carbonic acid gas, in the Entiry

described and for the purpose set forth.

No. 34,696.—T. H. RUSSELL, of Northfield, Vt.—Improvement in Water-Wheels.—Proping dated March 18, 1862.—The lower end of the hub of the wheel is made to fit upon a semiple. placed centrally at the base of the framing; on the lower part of the semisphere is secured to ring G, the lower edge of which is formed of inclined surfaces resting on corresponding faces on the base of the framing. The ring has a toothed segment into which gears a 1.2.2 on the end of a vertical shaft J, by which means the shaft and wheel may be adjusted to admit of the equal wear of the gearing. The upper part of the chutes are of the comparison, and the lower parts inclined so as to direct the water at right angles to the upper parts. of the buckets, while the curved upper parts receive the water vertically through the of the gate and direct it to the lower parts of the chute with the least possible friction. Ichute case has recesses in it so as to form two concentric annular projections with relatible between, forming a bearing surface for the gate. The annular gate L has the bearing surface for the gate. zontal cleats over the curved ways resting on vertical screws; between the cleats an are friction rollers to ease the bearing of the gate on the chute case, so that the gate and we turned and adjusted with ease, and raised when necessary for cleaning.

Claim.—First, the socket h', semisphere i, ring G, provided with the inclined surface, and frame F, provided with the inclined surfaces k, in combination with the toothel sense H and pinion I, all arranged as shown, for the purpose of raising and lowering the when D

and shaft E, as set forth.

Second, the packing C, when applied to the wheel by means of the shoulder c, of the data b, of the case A, and the adjustable flanch B, connected to and arranged with flanch!. shown, for the purpose of expanding the packing and fitting it snugly and water-tight around the wheel, as described.

Third, the chutes K, when constructed as shown and arranged relatively with the lake.

h of the wheel D, to operate as and for the purpose specified.

Fourth, the arrangement with chute cases M of the recesses O, concentric projective?? and radial projections q, as and for the purpose set forth.

Fifth, the strips or cleats O, attached to the annular gate L, in combination with the saljustable ways P and friction rollers c', substantially as and for the purposes set forth.

No. 34,697.—GELSTON SANFORD, of New York, N. Y.—Improvement in Machinery is Breaking and Dressing Flaz or Hemp.—Patent dated March 18, 1862.—On the main that are secured two heads which receive near their periphery, the journals of a series of fixed rollers, between which are hatchel bars secured to the heads; surrounding the series of fiction rollers, and secured to the frame, is a ring with cogs on its inner periphery, into which is flutes of the rollers mash like cogs, thus causing a rotary motion on their axes while the revolve about the axis of the main shaft, so that their fluted peripherics may properly of connexion with the fluted surface of a sector concave placed above, which latter is him and the connexion with the fluter is him and the connexion with the connexion with the connexion with the connexion will be connexion. its rear end to the frame, the front end being suspended by a spring which lifts it clear at track of the fluted roller, when not drawn down by a treadle. The jielding of the const prevents the violent breaking action which is injurious to the fibres.

Claim.—The fluted roller or rollers having a positive planet motion, substantially 3 scribed, in combination with a yielding fluted concave, substantially as and for the Party

described.

Also, the hatchel, in combination with the fluted roller or rollers, having a positive motion, and the yielding fluted concave, substantially as and for the purpose specific.

No. 34,698.—Gelston Sanford and J. E. Mallory, of New York, N. Y.—Improved in Machinery for Breaking and Cleaning Hemp or Flax.-Patent dated March 18 1-1-The ends of the fluted bars are fitted to slide in ways in the sides of the frame, the wife being connected with a double crank on the main shaft for giving it a rapid motion lower bar rests on springs so as to yield to the concussion caused by the upper har

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rest upon a movable bed, the ends of which also slide in ways, and the bed is hinged end of a pair of toggle joint levers, the lower ends of which are hinged to the bottom se frame; the toggle levers are operated by means of a treadle, which causes the lower to be carried up to the position for breaking, and when the bar is brought down, the plant is enabled to pass his hand between the bars, so as to feed the broken flax to the

Laum.—Combining the fluted bars, substantially as described, for performing the comand operation of breaking and pounding flax or other like plants, with springs, substanty as described, to render such compound breaking and pounding surfaces yielding and

M-adapting, substantially as and for the purpose specified.

Also, in combination with the fluted breaking bar, reciprocating by a positive motion, the using of the other or opposite breaking bar movable, and connected with the frame by gele joint levers and treadles, or their equivalents, substantially as and for the purpose erified.

No. 34,699.—C. B. SAWYER, of Fitchburg, Mass.—Improvement in Hot-air Furnaces.— tent dated March 18, 1862.—The water vessel is applied around the pipe, in which are a nes of openings just above the surface of the water, so as to allow the heated air to come contact with it; the air, when dry, thus absorbs moisture, and the injurious effects of dry sted air are obviated.

Claim. - First, the employment or use, for the purpose specified, of a water chamber B, an applied substantially as described, either to the cold-air induction pipe or to the hotpipe A. of an air-heating furnace, at a point sufficiently remote from the furnace to pre the water reaching the boiling point, as set forth.

fair induction pipe, or in the hot-air pipe A, of an air-heating furnace, to serve as a sepato free the hot air, or air to be heated, from dust and other light impurities which may in suspension in it, substantially as described.

4.34,700.—G. W. Scollay, of St. Louis, Mo.—Improvement in Burial Cases.—Patent Murch 18, 1862.—The claim and engraving explain the nature of this invention. Emm.—First, the continuous grooves b in the joints of the coffin, for the purpose of sating them and making them air-tight, in the manner described and for the purpose

scend, combining a valve with a deodorizing chamber made in the coffin, for the purpose colorizing the escaping gas, as described.

hird, the chamber c, in combination with the coffin, and with or without the valve r, and nion d, for the purpose of holding the deodorizing material.

o. 34,701.—NOAH SHAW, W. B. EASTABROOKS, and C. A. PIPER, of Eau Claire, Wis.—
rored Shingle Machine.—Patent dated March 18, 1862.—The right-hand side of the bolt. sagainst the bar L, and as the carriage moves toward the saw, the latter cuts a shingle As the carriage approaches the termination of its forward movement, the pin be lever M enters a slot of the plate, which brings the lever to a horizontal position. As carriage approaches the termination of its backward movement, the bars K K are caused The bar L is adjusted alternately in reverse positions, so that the " actuated alternately. 263 are cut from the bolt, but and point alternately from the other end. Means are also woved for varying the thickness of the shingles, and supporting the same in position until deep from the carriage through a space in the rear strip D, which is made shorter for the

imm.—First, the pivoted bar L, operated through the medium of the bars K K, lever M, ts PQ, and bolt carriages G, substantially as shown, for the purpose of adjusting the

tion which the shingles are sawed, as set forth.

mend, the employment or use, in connexion with the adjustable bar L, of the rod p, wided with the flanch r, and fitted in the block J, for the purpose of regulating the width the shingles, as specified.

third, in combination with the adjustable bar L, actuated or operated as shown and ribed, the rod s, provided with the bar u, and arranged as shown, to serve as a support the shingle being sawed.

ourth, the two strips D D', provided with upper bevelled or inclined surfaces, and arranged elation with the saw E, and the space or opening b in the carriage G, as and for the purpose

10. 34,702.—JOHN SLOAN, of Philadelphia, Pa.—Improved Insole for Boots and Shoes. at dated March 18, 1862.—The metal projects beyond the wood, and is folded over a wire ch encircles its outer edge.

deim.—An insole for boots and shoes, made of a thin metal bottom and a thin wooden top two united together, in the manner and for the purpose substantially as described and

esented.

No. 34,703.—C. E. SNEIDER, of Baltimore, Md.—Improvement in Revolving Fire-arms.—Patent dated March 18, 1862.—The hinged frame allows the removal of the cylinders with their axis pin, so that after one cylinder has been discharged, both can be removed and inserted again with their positions reversed, the undischarged one being the foremost. The cylinders are so arranged that the revolution communicated by the ratchet wheels to the rearmost is communicated to the forward cylinder. Metallic cartridges are used in this invention, and the hammer, by means of the guide, is made to reach over the rear cylinder and strike against the flanges of the forward cylinder.

Claim.—First, the employment in a revolver of two many-chambered cylinders or senes of revolving chambers, arranged breech to breech upon the same axis pin, substantially as

and for the purpose described.

Second, the combination of the guide qrs with a pivoted hammer head F, employed in connexion with a revolving-chambered cylinder, in the manner and for the purpose shown and explained.

No. 34,704.—J. F. Stevenson and T. B. Hammer, of McKee's Port, Pa.—Improvement in Mode of Lubricating Azles .- Patent dated March 18, 1862. - The chambered recess contains cotton wool, or other fibrous material, to be saturated with oil, and the channels allow the ol to coze out upon the revolving axle. The thumb screw closes the opening through which cotton wool is introduced.

Claim.—The hub A, chambered recess a, channels e, and thumb screw g, when combined

and arranged to operate in the manner and for the purpose set forth.

No. 34,705.—Albert Tracy, of United States Army.—Improvement in Tompion for Finarms.—Patent dated March 18, 1862.—The tempion is made of wood or other elastic material. and at its lower end is inserted a wedge which can be raised or lowered by means of the serve shaft and attached head, so that the tompion can be made to contract or expand. For camen the head is dispensed with, and the shaft can be screwed up or down by a removable key.

Claim.—First, the tempion for small-arms and cannon, as shown in figures 1 and 2 and

substantially as described.

Second, the modification shown in figure 4, substantially as described.

Third, the tompion, as claimed in the first and second claims, in combination with the removable key, substantially as described and shown in figure 5.

No. 34,706.—THEODORE TWICKELER, of Boston, Mass.—Improvement in Needle-Guns. Patent dated March 18, 1862 —The spring lever O provided with a catch at one end is placed on the under side of the breech-pin, and is hung near its centre, so that its ends have a vertical play. The rear of the trigger operates to throw the catch out of contact with the front end of the needle-carriage, and thus allows the needle to be forced forward by a coiled spring into a cartridge in the bore of the gun. A thumb-spring lever I, having a shoulder on its top surface, serves to retain the coiled spring in a compressed state, until released by the trigger acting on the catch-lever.

Claim.—The arrangement of the catch-lever O, the spring i, and the thumb-lever I, farnished with a stud or shoulder v, as set forth, with respect to the needle-bar carriage, and so as to operate in holding the spring L in a compressed state, in manner and under circum-

No. 34,707.—G. E. VAN DERBURGH, of Mamaroneck, New York.—Improved Oilproof Cask.—Patent dated March 18, 1862.—The claim explains the nature and object of this invention.

Claim.—As a new article of manufacture, a cask, a barrel, a keg, a firkin, or other style of vessel, the inner surface of which has been rendered impervious to oil, turpentine, &c., by the single or repeated use of liquid silicate, substantially as set forth.

No. 34,708.—THOMAS VARNEY, of San Francisco, Cal.—Improved Device for Straining Gold and Silver Amalgam.—Patent dated March 18, 1862.—The tube being closed at the bottom, is filled with quicksilver. The amalgam is then poured into the vessel, and the cock at the lower part of the tube opened, when the quicksilver will flow out and a vacuum by produced under the strainer, thus causing the quicksilver of the amalgam to be forced through the strainer by the pressure of the atmosphere.

Claim.—The combination of the tub or vessel A, strainer C, and tube D, arranged w

operate in connexion with quicksilver, as and for the purpose set forth.

No. 34,709.—THOMAS WARKER, of New York, N. Y.—Improved Bottle for Eraled Liquids.—Patent dated March 18, 1862.—The spout of the metal fountain-head is lined with glass, or other suitable material, in order that the ærated liquid may not come in contact with the metal. The shoulder, the alternate grooves, and the ridges on the neck of the bottle, are used to strengthen the attachment of the metal cap, to which the fountain head is screwed.

Claim.—First, the employment or use of a lining e of glass, or other suitable material such as described, in combination with the metal fountain-head B, substantially in the man-

ner and for the purpose specified.

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Second, the arrangement of the circular head or shoulder i on the top edge of the neck a of the bottle A, in combination with the alternate vertical grooves and ridges j k, as and for the purpose shown and described.

No. 34,710.—R. A. WILDER, of Cressona, Pa.—Improvement in Hoisting Machines.—Patent dated March 18, 1862.—The brake wheels are provided with removable flanges for holding a ring or rings of wood made in blocks between which is a middle ring or flange for the purpose of separating that part of the wooden ring which receives the cable from the part that receives the brake band, so that either may be repaired separately. The ends of the bake bar are attached to arms on a shaft supported upon blocks between the boxes of the wheels. The rope is attached to the car by clamping it between two pieces of timber, in grows formed to fit the strand of the rope, for convenience in increasing or diminishing the distance between the attaching points.

Claim.-First, the combination of the brake band with the rings of wood, or other material substantially the same, inserted in recesses on the perimeters of the brake wheels, substan-

tially as and for the purpose set forth.

Second, also attaching the rope or cable to the car or other weight to be raised or drawn up, by charping it between two pieces of wood, or other material, (one or both of which should be twiened to said car or weight,) in grooves of the shape in reverse of or formed to fit the strands of the rope, substantially as described.

No. 34,711.—H. M. WYETH, of Pulaski, Iowa.—Improvement in Pumps.—Patent dated March 13, 1862 — The pump box is to be immersed below the surface of the water in the well, the discharge pipe rising to any convenient height. By means of the two valves at the top and bottom of the box, both opening inwards, the box is kept always full of water; and by the upward or downward pressure of the piston the water enters from openings at the top and bottom of the box into the discharge pipe, the side valve closing each alternately.

Claim.—The combination and arrangement of the single side valve s with the pump box or chamber A and discharge pipe F, substantially as and for the purposes set forth.

No. 34,712.—J. H. Cables, assignor to the American Knife Company, of Plymouth Holim, Coun.—Improved Combination of Knife, Fork, and Spoon.—Patent dated March 18, 182.—The knife and fork when joined together are held by headed pins on the inner scale of the fork-handle, which fit into keyhole-shaped slots in the inner scale of the knife-handle. A hinged catch on the knife-handle catches one of the pins, elongated for that purpose, and book it so as to prevent end motion. A spring pressing against a shoulder on the spoon bods it in position, and the curved slot permits its removal from the handle.

Claim.—The arrangement of the two parts A B of the handle in combination with knife-blake C, fork D, and spoon E, and with hinged catch g, clongated pin d, spring h, and curved h and h are the specific parameters of the specif hot m, all constructed and operating substantially in the manner and for the purpose shown

and described.

No. 34,713.—E. C. Dunning, assignor to Inving Hull, of Bridgeport, Conn.—Improve-ment in Metallic Cartridge Cases.—Patent dated March 18, 1862.—It is designed to form a stall rabbet or shoulder inside the muzzle of the gun, against which the outer metallic case is stopped, so that in loading, only the powder and ball and thin inner case will enter the piece and the outer case is removed by the withdrawal of the ramrod—the purpose being to obviate the ball effects of fouling the barrel and biting the cartridge when paper is used.

Claim. - A water-proof metallic cartridge case composed of two thicknesses of metal, comtinel and arranged in the manner and for the purpose substantially as set forth and

described.

No. 34, 714.—JOHN EKIN, assignor to Himself, and WILLIAM and S. M. ALLISON, of Xe-1 Ohio. - Improvement in Furnaces. - Patent dated March 18, 1862. - The fuel and combar in chambers, ash pit and discharge chimney are combined in one continuous flue. wegtt of fuel in the supply chamber forwards it to the fire as fast as consumed, and the adoubt tible matter discharges itself at the lower end of the inclined grate.

Claim. The combination of the supply chamber B, inclined grate D, slag aperture e, close ash pit G, and chimney F, when constructed to operate in the manner and for the purposes

Lip wited.

No. 34,715.—THOMAS FISLER, of Camden, N. J., assignor to J. P. REED, of Philadel-plat, Pa.—Improvement in Feed-Bags.—Patent dated March 18, 1862.—The rods, three or more are jointed, and when extended are held in position by means of slides on the joints, being attached to the bag and the other resting on the ground, so us to form a support for the bag while the animal is feeding.

Claim.-The connecting and folding rod attached to the bag, or its equivalent, arranged

as sel forth and for the purpose specified.

No. 34,716.—CHARLES GREGOR, assignor to Himself and CHARLES SCHWITZER, of New York, N. Y.—Improvement in Machinery for Cutting Cork into Strips.—Patent dated March 18, 1862.—The cutters are of two kinds—one with disk-cutting edges cutting in a plane parallel to that of the revolution of the wheel, the other cutting at right angles to that plane. The cork is cut in strips and packed in the feed box. The transverse cutters passing by the ends of the cork, score it with cuts; the revolution of the wheel then causes the disked cuters to pass across the ends of the cork with a shearing cut, so that the shavings fall in long narrow strips.

Claim.—First, the revolving wheel d, provided with the cutters e and f, in the manner

specified and operating as set forth.

Second, the arrangement of the feed box, provided with the rollers i k l, gears m n o and p, and pinion q, and actuated from the wheel d, whereby the cork is fed progressively to the action of the cutters, as set forth.

Third, the knives e e with the disk-formed cutting edges, in combination with the wheel d,

substantially as set forth and for the purposes specified.

No. 34,717.—B. B. Hanze, of Morrisville, Vt., assignor to Carlos Pierce, of Boston, Mass.—Improvement in Tents.—Patent dated March 18, 1862.—The claim and engraving explain the nature and object of this invention.

Claim.—The employment of an expanding and folding frame for distending the upper part

of a tent, substantially as described.

No. 34,718.—F. L. Kidder, assignor to Himself and Frederick Hoeff, of Brooklyn, N. Y.—Improvement in Ice Cars.—Patent dated March 18, 1862.—The propelling wheels are actuated by means of a crank operating the cog-wheels. The car is steered by the feet acting upon a cross-head, which moves a rod and bars connected with the forward runners.

Claim.—The platform a provided with the skates or runners and steered substantially as set forth, in combination with the propelling wheel or wheels k, actuated substantially as

specified.

No. 34,719.—John Kinniburgh, of Schott's Iron Works, near Motherwell, Scotland, assignor to William Kinniburgh, of Newark, N. J.—Improved Wash or Coating for Metalic Moulds.—Patent dated March 18, 1862.—The mould is heated previous to casting, to prevent the pipe being suddenly chilled, and so becoming brittle, and the application of the composition prevents the pipe adhering to the mould.

Claim.—The employment, for the purpose specified, of a metallic mould, when used in connexion with the wash composed of pitch or coal tar, barm, or yeast, and charcoal or black

lead, as described.

No. 34,720.—E. C. MACKINNEY, assignor to Himself and J. H. POWELL, of Peekskill, N. Y.—Improved Device for Holding Harness Reins.—Patent dated March 18, 1862.—A plate of metal is secured to the inner side of the dash-board of a vehicle, with an adjustable plate attached, which can be screwed down so as to hold the reins when inserted between the two plates.

Claim.—As an improved article of manufacture, a rein-holder formed of the stationary plate A and an adjustable plate C, actuated through the medium of the screw B, as shown and de-

scribed.

No. 34,721.—J. J. MÜLLER, assignor to FREDERICK FRANK and J. A. TAUBER, of New York, N. Y.—Improved Ore Separator and Washer.—Patent dated March 18, 1862.—In the engraving K and A are the parts of a shaking table, to one end of which a bar is attached. By the action of a cam fixed on a revolving shaft and pressing upon the other extremity of the bar, a forward movement is given to the table, which, when the pressure is removed, slides back again by its own weight; the tables strike against India-rubber buffers, and thus acquire a further vibratory motion. The ore, in a pulverized state, is conducted by a stream of water upon the first table, which, by its vibratory motion, causes the lighter portions of the ore to flow off with the water and the heavier to settle. A second table receives the washings from the first, and, in a like manner, further concentrates the ore. Dam slats D are inserted in front of the tables, by which means the washed ore is prevented from being carried off by the water, and the operation can be continued until the table is filled as high as its sides.

Claim.—First, the arrangement of a series of shaking tables below and in front, respectively. of each other, and set on inclined slides, and actuated in the manner and for the purposes

specified.

Second, the dam slats d d in combination with the shaking tables, for the purpose and as

set forth.

Third and last, the India-rubber buffers h h, applied as specified, in combination with the shaking tables, in the manner and for the purpose set forth.

No. 34,722.—A. RANDEL, assignor to J. J. ECKEL, of New York, N. Y.—Improvement in Mode of Extracting Oil, Tallow, &c..—Patent dated March 18, 1862.—The perforations in the cylinder tube and plate, in connexion with the bars, are to allow of the easy escape of oil or grease from the matter under pressure.

Claim.—An oil press, consisting of a bed A, hollow plunger B I, solid-ribbed curb C a, surrounded by bands C', shrunk upon its periphery, perforated cylinder D, perforated central discharge tube E, supporting tube E', perforated plates F G and H, and bars c s g, all constructed, combined, and arranged in the manner and for the purposes explained.

No. 34,723.—S. H. ROPER, Roxbury, Mass., assignor to ELMER TOWNSEND, of Boston, Mass.—Improvement in Hot-air Engines.—Patent dated March 18, 1862.—The valve chest containing the valves, with their communicating chambers and passages, are attached to the outside of the case of the hot-air engine, for the purpose of protecting the valves from the direct radiation of the heat, and rendering them easily accessible for adjustment and repairs. Ciain.—As an improvement in hot-air engines, in which the working cylinder is separated by a partition or diaphragm from the furnace or fire box, the arrangement of the valves and their communicating chambers and passages within a valve chest F en the outside of the shell or casing A, substantially as and for the purpose set forth.

No. 34,724.—B. O. DOREMUS and B. L. BUDD, of New York, N. Y.—Improvement in Treating Gunpowder to Form Gartridges.—Patent dated March 18, 1862.—This invention is

explained by the claim.

C4 a.—First, forming the ordinary granulated gunpowder of commerce into solid shape suitable for use as cartridges, or for other purposes, by compacting the same in dry condition within moulds by pressure so applied as to condense said powder into the shapes substantially as described.

Second, the cartridge formed of powder in strata of different degrees of combustibility,

and compacted as described and for the purposes set forth.

No. 34,725—R. O. DOREMUS and B. L. BUDD, of New York, N. Y.—Improvement in Ball Contridges.—Patent dated March 18, 1862.—The powder is united to the ball by compacting the former under pressure in the cavity of a Minie ball, or by enclosing a pin, if the ball be of other form, in a suitable mould.

Claim.—The described method of forming cartridges by uniting the ball directly with the

compacted granulated powder, as set forth.

No. 34,726.—G. W. AYRES, of Rahway, N. J.—Improvement in Portable Ovens.—Patent cated March 18, 1862.—The upper part of the oven consists of three shells or plates, forming two chambers, the outer one of which being intended to contain sand, which is put in at the top and taken out at the lower part of the sides when the oven is transported, and the inner one constitutes a flue space. Two furnaces, perforated on their inner sides, are placed be ow the oven, between which is secured diagonally a plate, for the purpose of passing the make, &c., to both sides of the oven.

Exoke, &c., to both sides of the oven.

Claim.—The arrangement of the shells of the oven forming the flues and the space &c. the non-conducting material, the exterior shell having the openings, as described, for the putting in and taking out of the non-conducting material, in combination with the fur-

Lious and disphragm, as recited.

Also, the arrangement of the furnaces, disphragm, and flues, as set forth.

No. 34,727.—RICHARD MONTGOMERY, of New York, N. Y.—Improved Iron-Clad Vestals—Patent dated March 18, 1862.—A series of angulated recesses are secured to the sides of the vessel, leaving sharp projecting edges alternately with the recesses, by which projection may be directed into an opening and pass through the vessel, or be made to spend their free against that portion supported by the end of the beams which extend across and support the gun deck. The beams may be hollow tubes for the projectiles to pass through, or they may be solid and made of iron or timber.

Claim.—First, the angulated recesses in connexion with the openings and hollow beams, which the missile can be directed and conveyed across the ship, substantially as de-

E. bed.

Second, in combination with the recesses, the supporting solid beams, placed and opera-

No. 34,728.—ABRAHAM BARE, of Mexico, Ohio.—Improved Pans for Evaporating Sections Juices.—Patent dated March 25, 1862.—The first pan directly over the fire is Forded with a series of vertical bars intended to remove the scum when the sirup is Through openings in these bars. A pan directly over a vessel containing hot from the containing hot form exposed to the fire then receives the clarified sirup; from thence it passes to a vessel for ded with a false bottom, under which the steam escaping from the boiler circulates, and there it passes into the evaporators.

Claim.—First, so constructing pans for evaporating saccharine juices as that in the first races of evaporation it is done by the agency of fire alone, and in the second stages by lean, first closely confined and very hot, then in apartments less heated, until the desired

ट्रिंग is obtained.

Second, that particular construction of evaporator, wherein the same fire which evaporates is the first stages generates at the same time the steam for the second stages of evaporation.

H. Ex., Doc. 54—16.

Third, the double pan, constructed as described, the first lower section of which contains the generator, the second the steam chamber, and the third and additional sections for gradually decreasing the temperature, for the purposes set forth.

Fourth, the slide or valve between the steam chamber and the last section below, in com-

bination with the double pan, substantially as and for the purpose described.

Fifth, the heater or supply pan for water, arranged as described, in combination with the generator, for the purpose set forth.

Sixth, the first pan, constructed as described, in combination with the second pan, when its separate sections are heated by different degrees of heat, for the purpose set forth.

No. 34,729.—HENRY BERG, of Davenport, Iowa.—Improvement in Breech-Loading Fire arms.—Patent dated March 25, 1862.—By means of eccentric flanges formed upon the box and fitting within the slot of the breech, a rotation of the bolt will move the barrel forward or backward, the rotation being effected by a lever which is retained in either position by spring catch. The yielding lever is fulcrumed to the face-plate and held in a forward positive by a spring J and catch, which latter serves to disconnect the self-cocking apparatus. short arms project horizontally from the forward end of the lever which operates to full-ext the hammer on the descent of the barrel. An adjustable elastic plate fits over the orifice of

the priming passage, and permits the withdrawal of the priming.

Claim.—First, the crank-lever Ff, and eccentrically flanged bolt $E \circ e'$, constructed a described, and employed in connexion with the hinged barrel $D \cdot d \cdot d'$, and vertically slotted

breech B, in the manner and for the purposes explained.

Second, the yielding lever I i i', constructed and employed in the manner explained w raise the hammer by the depression of the barrel.

Third, the catch K k, employed in the described connexion with the sliding lever I is

disconnect the self-cocking apparatus.

Fourth, the sliding-plate O, employed in the manner shown and explained, to cover the priming passage M, or permit the withdrawal of the priming when desired.

No. 34,730.—R. C. BRISTOL, of Chicago, Ill.—Improvement in Breech-Loading Ordense. -Patent dated March 25, 1862. - Wedges are inserted in a mortise in the yoke and arms order that, when the breech is not forced into close contact with the concave surface of the rear end of the cannon, on account of the wear of the cams, the yoke can be slid forward on the arms by loosening the wedges.

Claim.—First, supporting the trunnions of a revolving breech upon movable blocks, and upon by springs, in the manner described, for the purpose of freeing the breech from contact with the main barrel, when the pressure which forces the breech against the main barrel

is removed.

Second, so constructing and hanging the turning breech on trunnions and against a yielding force that when the breech is released it will automatically move out of consist with the main body of the cannon, and also automatically turn its bore to a vertical position substantially as and for the purpose set forth.

Third, the yoke E, in combination with the ears F, and wedges m and e, in the manner

and for the purpose substantially as set forth.

Fourth, the combination of a revolving breech, with the came i, springs k, and weiges

l and m, substantially as described.

Fifth, the rest b, in combination with the revolving breech B, for not only arresting the excessive automatic revolution of the breech, but for supporting it in a horizontal position. substantially as described.

No. 34,731.—Albert Brown, of Troy, N. Y.—Improvement in Stove Grates.—Palent dated March 25, 1862.—The grates are formed of transverse bars connected with longitude nal bars having cast on their ends pins which pass through oblong slots in the levers '7 means of which a simultaneous motion of the grates in opposite directions is caused when the main lever is actuated. Upon the side bars of the frame are formed recesses at interven for the purpose of preventing their expansion outwards by the action of the heat.

Claim.—First, the arrangement of the transverse-barred grates D and study with the

slotted pivoted levers B B', as shown and described.

Second, the arrangement of the recesses e upon the sides d, as and for the purpose shows and described.

No. 34,732.—F. E. Brown, of Hightstown, N. J.—Improvement in Cultivators.—Pate: dated March 25, 1862.—A gang of ploughs is attached to a mounted frame in such a max.... that the ploughs are allowed to rise and fall so as to correspond to the inequalities of the said face of the ground, and at the same time are rendered capable of being readily raised aid its surface when not required for use. They are also adjustable so that they can be separate to a greater or less distance apart, or made to penetrate the ground to any required depth.

Claim.—First, the combination of the adjustable slides F, plates G, slotted pendants I.

and connecting rod H, with each other and with the standard I, in the manner shown a:

described.

Second, the arrangement of the pendant-slotted bars E J, slides F K, plates G L, rods H M, standards I N, and arms i o, with each other and with the arms q, links j, arms s, shafts l, and lever 0, as and for the purpose shown and described.

No. 34,733.—Harvey Brown, of New York, N. Y.—Improvement in Chimneys for Lamps.—Patent dated March 25, 1862.—The claim and engravings explain the nature of this invention.

Claim.—First, the arrangement and construction of a lamp chimney, having a glass bulb for its base, with a sheet-metal tube attached above, substantially in the manner and for the purposes set forth.

Second, the shade for this lamp chimney, constructed and arranged substantially in the

manner and for the purposes set forth.

No. 34,734.—C. E. BROWNELL, of East Haddam, Conn.—Improvement in Cylinders for Mechine Eards.—Patent dated March 25, 1862.—The movable head is fitted to turn on one end of the cylinder and upon the shaft. It is provided with curved slots, through which pass screws which secure it to the cylinder and admit of its being turned to tighten up the fillet, one end of which is secured to the movable head and the other end to the further end of the cylinder, the object being to obviste the necessity of unwinding and rewinding the fillet as the slack is driven to one end of the cylinder.

Claim.—Providing the cylinder with a movable head B, or otherwise making a portion of the same to which one end of the card fillet is attached, movable about its axis relatively to the other portion thereof, to which the other end of the fillet is attached, substantially as

and for the purpose specified.

No. 34,735.—E. P. BROWNELL, of East Haddam, Conn.—Improvement in Crank Motion.—Pstent dated March 25, 1862.—To the hub of the fly-wheel is secured a coiled spring, the free end of which presses against the wrist so as to hold the slide against the rim of the wheel which constitutes the stop. The slide being slotted is allowed a longitudinal movement, and when at the dead point, occupies a position obliquely to the pitman. The pressure on the treadle causes the slide to move forward with the wrist until the latter has passed the centre, or dead point, when the spring forces the slide against the stop until it is again required to move forward therefrom.

Claim.—The combination of an obliquely sliding wrist pin, a spring and a stop, the whole applied in combination with the crank shaft and pitman, to operate substantially as and for

the purpose specified.

No. 34,736.—E. and A. BUCKMAN, of East Greenbush, N. Y.—Improved Knife, fork, and Spoon-Cleaning Machine.—Patent dated March 25, 1862.—The spring planes, cylinders, and ledge are to be made of cork, and covered with brick-dust or emery, so that the articles which it is desired to clean can be polished by friction upon them.

Claim.—A knife, fork, and spoon-cleaner, composed of the spring planes E E, cylinders

HH', ledge G, arranged as set forth, and otherwise made as shown and described.

No. 34,737.—O. R. BURNHAM, of New York, N. Y.—Improvement in Hoop Skirts.—Patent dated March 25, 1862.—The claim and engraving explain the nature of this invention.

Claim.—First, the construction of skirt hoops of strips of steel or other metal, arranged eige to edge, and woven or braided together with fibrous material, so that each hoop shall

composed of two or more strips, substantially as specified.

Second, the combination in a skirt of tapes or straps C C woven double at the places where the hoops are connected, and single between those parts; hoops which are composed each of two or more strips of steel, united by weaving or braiding, as described, and are instead through the double portions of the straps, metallic clasps passing through both the tapes or straps and the hoops, all as specified.

No. 34,738.—James Canfield, of Sabula, Iowa.—Improved Gold-Washer.—Patent dated March 25, 1862.—The bottom of the washer consists of two parts, over one of which is a wished plate of metal which conducts the ore to the sieve, which latter is inclined from the front to prevent the particles of gold from washing off. Under the sieve is a box to taid the gold as it is washed.

Claim.—The gold washer, constructed and operating in the manner and for the purposes

enbecantially as delineated and set forth.

No. 34,739.—FRANK CHASE, of South Sutton, N. H.—Improvement in Blind and Shutter fatenings.—Patent dated March 25, 1862.—This device is for the purpose of allowing the rad to be opened or closed without raising the sash, and also for fastening it firmly in the position. The bar passes through a notch in the lower part of the sash.

Caus.—The curved rod or bar D, applied to the blind or shutter C, as shown, provided with the lateral projection b and eye f, and used in connexion with the hook a and pin a at-

whed to the window frame A, substantially as and for the purpose set forth.

No. 34,740.—R. J. Colvin, of Lancaster, Pa.—Improvement in Combined Sword and Pistol.—Patent dated March 25, 1862.—The mechanism of the lock is covered by a sheath or outer casing attached by screws to the blade of the sword. The end of a hooked spring attached to the side of the hammer moves upon spiral flanges upon the axis of the revolving chamber, and thus the motion of the hammer causes the chamber to revolve.

Claim.—The arrangement and combination of a sword with a revolving pistol, when the said revolving pistol is arranged or attached to the back of the blade of the sword, in ad-

vance of the handle, by flanges or otherwise, as shown and described.

No. 34,741.—J. D. CROCKER, of Norwich, Conn.—Machine for Cutting Corks for Soppers.—Patent dated March 25, 1862.—The nature and object of this invention, which does not admit of a brief description, are expressed in the claim.

Claim.—First, the tilting arms G G, one or more, provided with the spindles r*, and arranged in relation with the rotating cutter E, in connexion with the rotary arbors H, one or more also placed on the arms G G, and provided with the spindles I, as and for the purpose

Second, operating or sliding the spindles I so that they may grasp and release the corks at the proper time, by means of the bands or rings J J, slide M, spring N, lever O, and the shoulder j attached to the bar k, as set forth.

Third, rotating the arbors H H through the medium of the adjustable wheels U U on the shaft S S, and the pinions d d on the arbors H H, arranged as shown, so, that the arbors H

H may be rotated as described.

Fourth, the levers W, when used in combination and arranged in relation with the arms GG, as shown, to operate as feeders, as set forth.

No. 34,742.—J. D. CUSTER, of Norristown, Pa.—Improved Lamp-Burner.—Patent dated March 25, 1862.—This lamp is designed to burn coal-oil without a chimney. The wick extends entirely across the top of the tube, the lower part of which being round, admits of the wick being folded or rolled together. At the side of the wick tube is attached a tube to held a shade stem, to be sustained in position by a spring, which on being pulled out allows the shade stem to fall and lower the shade. A cap having a larger or smaller opening may be placed over the wick tube to regulate the size of the flame when desirable.

Claim.—First, the bevel lamp wick tube B and the mode of folding up the wide wick.

or wicks, below the wick shaft C, substantially as described and shown.

Second, the shade tube D and its spring E, one or both, to be used on the burner or not. as desired, substantially as described.

Third, the regulating cap F, to be used on the burner or not, as desired, substantially as described and shown.

No. 34,743.—W. W. Davis, of Portland, Me.—Improvement in Stove-pipe Thimbles.—Patent dated March 25, 1862.—The thimbles are constructed with openings of various sizes and forms, for the purpose of admitting pipes of different diameters and shapes, and for varying the extent of the heating and ventilating orifices. The thimble is provided with a case, to which it is attached by straps turned upon its edges. The case is inserted in the wall, as a safeguard against the effects of heat.

Claim.—First, the cubical box B, whether constructed as represented in the drawings, with four of its sides only perforated with holes of various sizes and forms, the fifth whole and sixth removed, or whether all of its sides are so perforated, as and for the purposes specified.

Second, in combination with the above the case or safeguard A, constructed as described. as and for the purposes set forth.

No. 34,744.—R. O. DOREMUS and B. L. BUDD, of New York, N. Y.—Improvement in Water-proofing Cartridges.—Patent dated March 25, 1862.—The compressed cartridges are made water-proof by varnishing the outside with shellac, collodion, or other material not soluble in water.

Claim.—The water-proofing of compacted cartridges, made by compressing dry granu-

lated powder, as set forth.

No. 34,745.—Otto Ernst, of New York, N. Y.—Improvement in Tobacco Pipes.—Patent dated March 25, 1862.—The tube containing the tobacco is provided with an inner tube for the smoke, so fitted that only a portion of the tobacco is ignited at one time, and the tobacco is pressed forward as consumed by means of a follower actuated by a spring, for the purpose of keeping the tobacco dry and free from the condensation of vapor.

Claim. - The combination of the inner tube c and follower d with the spiral spring c, when

constructed to operate in the manner and for the purposes substantially as described.

No. 34,746.—ADAM and WILLIAM FISCHER, of New York, N. Y.—Improved Initation Martle.—Patent dated March 25, 1862.—The composition consists of a precipitate formed by a mixture of the solution of alum and lime, to which is added glue and thin tissue paper: any desired color may then be mixed and the whole formed into a homogeneous mass, which is spread in thin plates and dried. Digitized by GOOGIC

Claim.—The combination of matter, substantially as described, for the purpose of making artificial marble, in the manner and for the purpose substantially as described.

No. 34,747.—J. R. FINCH and T. W. HENDERSON, of Dayton, Ohio.—Improvement in Seeding Machines.—Patent dated March 25, 1852.—The seed-box is provided with a shaft, upon which are placed wheels having upon the centre of their peripheries a zigzag flange and upon their edges lugs, which, as the wheels revolve, serve to stir the grain over the open-ing, to prevent clogging and effect its regular distribution. The boot through which the seed falls is secured to the drag-bar by means of a rod which carries at its outer end a roller

Claim.—First, the employment of the wheels D D, provided upon their peripheries with the zigzag or cam flange represented, and with the lugs a a, arranged and used upon the

wheel and the flange, as is fully set forth, for the purpose specified.

Second, pivoting the boot He to the drag-bar G through the car at the upper front end of the said boot by means of the rod J, which carries the roller I behind the boot, substantially as and for the purpose set forth.

No. 31,748.—A. C. F. DEROCQUIGNY, D. GANCE, and LOUIS HANZO, of New York, N. Y.—Improvement in Sewing Machines.—Patent dated March 25, 1862.—This invention rebuts to a method of obtaining and controlling a lateral or side-to-side movement of the performing medie in working button holes, and in that kind of embroidery known as scalloping. In connexion with this needle a hook is provided, by which the needle thread is caused to take a turn round the needle in the formation of each stitch, so that the needle thread forming part of one stitch is caused to pass round the portion of the same thread, forming a part of the next stitch, the needle thread being alternately passed through the cloth and by the edge of the holes and locked by the shuttle thread in each case, two movements of the needle up and down and two lockings of the thread being required to make a complete stitch. series of levers within the box, actuated by the motion of the needle bar, serve to lift the presser. A means of operating the shuttle is provided, by which the necessity of a race way or of any fixed shuttle guide is obviated.

Claim. -First, the combination with the swinging tube F and box H, or other equivalent swinging guides for the needle bar, of a grooved plate K, a lever L', two switches L L, and

a pin i, the whole applied and operating substantially as described.

becond, the combination, with a laterally moving needle and a shuttle, of a hook p, ap-

pixed to operate, substantially as described, with reference to Figs. 8 and 9.

Third, the feed mechanism, composed of the grooved dog T, supporting point 21, arm T', and curved bar U', the said bar deriving a reciprocating motion perpendicular to the bed of the machine, and the said arm being adjustable along the curved bar, substantially as and for the purpose specified.

Fourth, the described mechanism for lifting the pressure.

Fig., operating the shuttle by means of two reciprocating holders Z Z', which deliver it from one to the other, and in so doing pass it through the loops of the needle thread, substantially as described, without the use of any fixed guide in contact with the shuttle.

No. 34,749.—D. R. FRASER, of Chicago, Ill.—Improvement in Packing for Pistons.-Patent dated March 25, 1862.—Cut and uncut rings are so adjusted within a piston that both shall be free to move independently of the piston head and followers. Steam inlet Passages upon the piston connect with channels upon the outer faces of the uncut rings, so that a portion of the entering steam first acts upon the faces. The cut ring is held steamight by means of the face channels upon the uncut rings, and it is distended by the action of the spring wedge. The steam is admitted by valved openings in the shouldered uncut rags. By means of two springs and a screw and wedge the moving parts of the piston are suspended in proper position relatively to the axis of the piston head or axis of the ergine cylinder.

Claim.—First, adjusting within a piston, cut and uncut rings, so that both shall be free to move independently of the follower and piston head, substantially as described.

Second, the combination of the channels f and the passages r, substantially as and for the purpose described.

Third, the use of the uncut rings, with face channels f for holding the cut packing ring

steam-tight, substantially as described. Fourth, the combination of the uncut rings and the spring wedge, so that by the force of mean and the action of the wedge, the cut ring shall be held both steam-tight and distended,

substantially as and for the purpose described. Fifth, the combination of the piston head valves, shouldered uncut rings, and the cut ring,

for the purpose set forth.

Sixth, the combination of the two springs, screw and wedge, substantially as and for the Purpose described.

No. 34,750.—D. S. GARDNER and N. A. MANNING, of Greene, N. Y.—Improvement in Presses for Compressing and Baling .- Patent dated March 25, 1862. - The plunger is forced down by the crank acting, as shown by the drawing. By means of the pawl and laver the plunger is then forced down slower, and at the same time with greater force, for the purpose

of further compressing the substance.

Claim.—The suspended nut and toothed wheel D and pinion E, placed, respectively, on the screw C of the follower or plunger B and crank shaft F, and arranged to gear into each other in combination with the fixed ratchet H, on shaft F, and loose lever I, provided with the pawl J all being arranged to operate as and for the purpose set forth.

No. 34,751.—EDWIN GORDON, of Taunton, Mass.—Improvement in Rotary Diggers.—Patent dated March 25, 1862.—The two cylinders are of unequal diameter, and are connected by gears in a common frame, so that the digger rotates in a direction opposite to the rotation of the driving wheel. The tines upon the larger cylinder play between the digger so as to prevent clogging. The adjustable hinged draught bar is so arranged that by depressing said bar, whereby the front end of the frame is raised, the small digging cylinder is depressed, and by elevating said draught bar the cylinder will be raised also.

Claim.—First, the combination of the draught Bar, c and adjusting lever s with the

bar g, upright f, arm b, and side cases a, as and for the purpose shown and described. Second, the arrangement of the cylinders A E with each other and with the gears b i k l, as

shown and described.

No. 34,752.-J. I. HERRICK, of Milwaukie, Wis.-Improvement in Stores.-Patent dated March 25, 1862.—Between the stove and the chamber connecting the flues there is an open space, which adds to the heating power of the stove by allowing air to circulate between the two chambers. Flues circulate vertically in the flue chamber, but can be closed by means of a damper, so that the heated air can escape by the smoke-pipe. The removable pan is inserted under the flue, to receive soot, &c., when cleaned.

Clsim.—The flues f f, removable pan P, heating space D, when combined with a heating stove, constructed and arranged to operate as described.

No. 34,753.—James Higgins & T. S. Whitworth, of Salford, England.—Improvement in Throttles for Spinning Cotton.-Patent dated March 25, 1862.-The axle of the spindle passes through the fixed tube b. On this fixed tube the boss k, having at its upper parts shoulder on which the bobbin rests, is attached to the copping rail by an arm, so as to move up and down. The arm to which the thimble is attached has at each end a screw, thus giving

it a swivelling motion.

Claim.—We claim as our invention, and as applied to machines in which a fixed tube is traversed to the copping rail, causing the part which so traverses, to be capable of swivelling: also in reference to machines in which a tube passes into the bobbin, after the manner illustrated at Fig. 3, we claim so connecting the said tube to the copping rail that it shall be

capable of swivelling.

No. 34,754.—JEDEDIAH HOLCOMB, of Brandon, Vt.—Improvement in Steelyards.— Patent dated March 25, 1862.—The open head is attached to the beam and rests upon proper upon the side of the frame. The weight is attached to a knife-edge near the extremity of the beam, which is enclosed by the open head. The object of this invention is to afford a beam which can be used in weighing large weights without lengthening it or using a heavy counterpoise.

Claim.—The use of the open head A, substantially as set forth, in combination with the

beam of a steelyard, for the purposes described.

No. 34,755.—JARED HOLT, of Albany, New York.—Improved Device for Drawing is Trunk Stays.—Patent dated March 25, 1862.—The springs are attached in the middle to the lid of the trunk, and have hooks or rings upon their ends, to which the trunk stays are attached. When the lid is up, the springs allow the stays to support the lid; but when the lid is closed, the stays are drawn in by the action of the springs.

Claim.—The arrangement of the springs D, or their equivalent, in combination with the runk stays C, substantially in the manner and for the purpose shown and described.

No. 34,756 .- C. H. B. KELLOGG, of Arcadia, Ohio. - Improved Washing Machine. - Patent dated March 25, 1862.—The bearings of the rubber journals are supported on two hollow uprights attached to the sides of the box, through which uprights, pass wire rods which connect the blocks covering the bearings of the rubber, to springs hung upon a piece of wood attached to the bottom of the box, for the purpose of holding the rubber down upon the belt which passes over rollers.

Claim.—The arrangement described of the springs 10 10, in combination with the rods 14 14, bearing blocks 9 9, hollow side pieces 6 6, and the receptacle in which the clothes are

to be washed, substantially as and for the purposes set forth.

No. 34,757.—HENRY LOWENBERG, of Boston, Mass.—Improved Composition for the Mana facture of Mouldings, and other purposes.—Patent dated March 25, 1862.—This invention is explained by the claim. Digitized by GOOGIC

Claim.—A composition made by combining starch and sawdust or comminuted wood by stem and by stirring them while under the influence of steam, so as to reduce them to a paste or dough capable of being moulded and dried, and becoming flexible when dry.

Also, the combination of potash, or an alkaline equivalent, with the composition of starch and sawdust, while being treated as described, the same being for the purpose as above

specified.

No. 34,758.—A. E. LYMAN, of Williamsburg, Mass.—Improvement in Candlesticks.—Patent dated March 25, 1862.—The candlestick is formed of a sheet of metal baving a series of leaves around a central disk, which forms the bottom. Two of these leaves are designed to be turned up to form the socket, and the other two are pointed so as to be stuck into wood or answer as a stand, or may be bent upon a rod.

Claim.—The candlestick, as described, as a new article of manufacture, substantially as

specified.

No. 34,759.—J. D. LYNDE, of Philadelphia, Pa.—Improved Bottle-Stopper.—Patent dated March 25, 1862.—The groove in the plug is made so as to give the rubber ring a tapering form for easy insertion into the bottle, and to make a tight joint when pressed down. Channels are made across the top of the stopper to hold the twine which is attached in the eye of a wire class, fitting in depressions near the top of the stopper, for the purpose of retaining the latter when it leaves the bottle.

Claim.—The arrangement of the rubber packing D, which gives it a tapering shape when not in use, and causing it to make the joint, as described, when pressed into the bottle.

The channels B B in the top of the stopper, for the purpose set forth.

The device, Fig. 6, to attach the stopper to the neck of the bottle; the whole constructed and operated substantially as and for the purposes set forth.

No. 34,760.—J. P. MANNY, of Rockford, Ill.—Improvement in Harvesters.—Patent dated March 25, 1862.—The triangular platform placed immediately behind the finger beam is designed to receive the cut grain, and to enable the delivery of the bundles to the raker in a suitable situation, and in convenient form for binding. The upright fence H, and its attachments I and i, prevent the grain from being thrown off one side, and, owing to the stope of the fence L, the grain which falls upon it is thrown upon the platform in a compact gavel, and in reach of the raker. The foot-board acts as a fence to prevent grain from clog-ring the gearing of the machine. The raker sits on the seat with his face quartering to the lorses, and is enabled thus to easily manipulate the rake. The construction of the platform is such that the raker delivers a gavel of grain in four different ways, each of which is convenient for the binders, and the machine is enabled to operate equally well, whether the grain be tall, short, clogged, or lodged, or in any other condition.

Claim.—First, the triangular platform E, when constructed and arranged substantially in

the manner described for the purpose set forth.

Second, the combination of the triangular platform E with the finger beam D and raker's stand or seat L, when the whole are arranged in relation to the driving wheel, and substantally in the manner and for the purpose described.

Third, the combination of the platform E, foot-board M, and raker's seat L, as and for the

purposes described.

No. 34,761.—J. P. MANNY, of Rockford, Ill.—Improvement in Harvesters.—Patent dated March 25, 1862.—The converging gear frame, in combination with the hinged diverging bounds and rigid attached bar, causes the pull of the horses to come upon the machine, so ttat the finger beam conforms to the inequalities of the ground. The horizontal frame afords a support to the raker's and driver's seats. To it is attached the curved lever N, the middle of which is connected by a rigid bar to the gearing end of the finger beam, while is extremity is attached by a cord passing over pulleys to the further extremity of the finger bam, thus allowing its elevation, the sweep of the points of attachment upon the curved ever being such as to keep the beam horizontal in any position. The caster wheel is locked by a book attached to the bar, and fitting into a staple on the caster.

Claim.—First, the combination of the converging gear frame B with the hinged converging bounds c and rigid tongue C, when arranged and operating substantially in the manner and

for the purposes described.

Second, the combination and connexion of the gearing frame and finger beam with the horizontal frame J, by means of both a flexible and a rigid connexion, substantially as described, for the purpose of keeping the finger beam horizontal in every position, as set

Third, locking the caster wheel K, for the purpose of preventing lateral motion of the machine when working on hill-sides, substantially in the manner described.

No. 34,762.—J. P. MANNY, of Rockford, Ill.—Improvement in Harvesters.—Patent dated March 25, 1862.—The shield plate is attached to the inner side of the outer converging bar, and is constructed with a flange protecting the cogs upon the gearing wheel, so as to prevent

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dust, &c., from clogging the gearing. The countershaft is made larger at the extremities, and fits in a slot upon a yoke setting horizontally upon the frame. This can be moved by a lever acted upon by the foot of the driver. When pushed back the slot on the bevel wheel can be forced in gear with the pinion wheel. The engraving explains the details of the construction.

Claim.—First, the combination of the driving wheel A and gear wheel S with the shield or guard plate S', constructed and arranged as and for the purposes described.

Second, the combination of the countershaft t with the sliding plate x', constructed, arranged, and operating as described, for the purpose of throwing the mechanism into or out of gear.

No. 34,763.—J. P. MANNY, of Rockford, Ill.—Improvement in Mowing Machines.—Patent dated March 25, 1862 - The horizontal bar, which is an extension of one of the hounds of the tongue, has the bent lever and attached handle so arranged as to be convenient to the driver. The combination embraces a number of devices which do not admit of a brief description.

Claim.—First, mounting the apparatus which regulates the height of the finger beam on

an extension of one of the hounds of the tongue, as and for the purposes described.

Second, the combination in a mowing machine of a finger beam, gearing frame, hinged tongue, and driver's seat, when the whole are arranged and operated substantially in the manner described.

No. 34,764.—M. H. MANSFIELD, of Ashland, Ohio.—Improvement in Clover Machine.— Patent dated March 25, 1862.—The teeth upon the cylinder are so formed that while one part is being worn, the other part is sharpened, and the cylinder may be reversed when necessary to bring the sharpened edges into action. The ends of the shaft are hung in boxes supported in the centre of a ring by screw points passing through bearings on the frame, thus allowing the boxes to be adjusted. A revolving feeder is placed in the lower part of the upper hopper for the purpose of causing a regular and uniform feed of the unhulled clover to the cylinder.

Claim.—The reversible cylinder C, in combination with the self-adjustable box D, primary

and secondary hoppers M N, with revolving feeder O, as and for the purpose set forth.

No. 34,765.—A. McGuffle, of Rochester, N. Y.—Improvement in Truss Bridges.— Patent dated March 25, 1862.—A number of hollow sections of cast or wrought iron are constructed with their ends bevelled, so that by abutting against each other, or against interposed angular blocks, as to form the arch. Iron posts intersect the arch between the sections, and serve to sustain the roadway, the lower parts being connected by wrought iron links. Top cords and braces are also used, as shown in the engraving, the object being to prevent buckling, and obviate lateral vibration.

Claim.—The combination of the arch sections A A, (either with or without the interposed heads or blocks B B,) the posts C C, the joint blocks E, the links D D, diagonal tension rods a a, top cords F F, and lateral braces c c, the whole arranged substantially as specified

No. 34,766.—F. H. Moore, of Boston, Mass.—Improvement in Apparatus for Cuting Garments.—Patent dated March 25, 1862.—The blade is made narrow, and when in a vertical position, or nearly so, is received into a guard or shield, which protects it, and prevents its twisting when cutting on a small curve; and the blade is so hung as to be inclined to the plane of the table as required to suit the work on which it is to operate, and to have a draw cut in a straight line or a large curve. By forming the blade with an offset or bend, it is made to cut more rapidly when working in or near a vertical line, and follow the pattern or small curves without disturbing the pattern.

Claim.—First, in machines for cutting out garments, hanging the blade f to a reciprocating frame, so that the position or inclination of the blade with respect to the plane of the table A

may be varied as required, substantially as specified.

Second, bending forward or projecting a portion of the cutting edge of the blade f, and extending the cutting edge below the bend, substantially as shown in Fig. 1, for the purpose specified.

No. 34,767.—L. F. NOE, of New York, N. Y.—Improved Paddle-Wheel.—Patent dated March 25, 1862.—The arms of one set are bent, those of the centre are double or crotched at their ends, and those of the third set are straight. The floats are attached to the arms, 50 as to set obliquely to the axle of the wheel, the inner ends of each of the two sets coming between two of the inner ends of the other set, the object being to lessen the waste of propel-

ling power caused by the action of back water.

Claim.—The combination of the middle arms 22, forked or raised as described to receive the buckets from each side, with the straight arms 3 3, the bent arms 1 1, and the straight or flat buckles 4 4, substantially as described, and accomplishing the purpose set forth.

No. 34,768 .- N. W. NORTHRUP, of Greene, N. Y .- Improvement in Hot-Air Stoves .- Patent dated March 25, 1862.—The combustion chamber is placed within a radiating case and has

at the lower part two fire chambers, each provided with a swinging grate hung upon pivots. An opening is made through the bottom of the stove for the admission of air to the space between the fire chambers. Dampers are arranged so that air may be drawn up or down

though the grates alternately, as may be required, when they are replenished.

*Cleim**—The combination with the combustion chamber B of the double fire boxes, the revolving or swing grates, the air-heating chambers and flues, and the air passages E, the governing dampers m I I k k; the whole being constructed and operated substantially as

No. 34,769 .- N. W. NORTHRUP, of Greene, N. Y .- Improvement in Coupling Shafting and Rods.—Patent dated March 25, 1862.—The coupling consisting of two parts, one of which is provided with a rib that fits in a groove lengthwise of the axle, and the other with a cross nb biting in a corresponding groove. The outer surface of the coupling is made tapering, and over it fits a sleeve secured by a set-screw.

Claim.—The coupling made in two halves, as described, with the grooves, ribs or flanges,

and band or sleeve, and set-screw combined, and for the purposes set forth.

No. 34,770.-M. J. PALMER, of Homer, N. Y.-Improvement in Churn Dashers .- Patent dated March 25, 1862.—The arrangement of the alternate air chambers and opposite inclined floats is designed to force air into the cream with each semi-revolution of the dasher, and prevent rotary motion of the cream, while the whole is kept in constant motion.

Class.—A horizontal churn dasher, with the slats or floats inclining in opposite directions upon opposite sides of the shaft, in combination with bars parallel with the shaft, with the horsonal U-shaped grooves closed at the ends, and so forming an air chamber as they pass

into the cream.

No. 34,771.—C. O. PARMENTER, of Amherst, Mass.—Improvement in Machines for Forming Bonnets.—Patent dated March 25, 1862.—The two parts composing the clamp tave an opening in their centre to correspond with the size and shape of the hat-block, the lower clamp fitting over the hat-block. The clamps are attached severally to bars that move up and down between vertical guides. An annular flanged stretcher is secured upon the wer end of a vertical spindle which moves up and down. A hand-wheel provided with a screw-thread is fitted upon the spindle, so that when the fabric is stretched over the hattock by the clamps, the stretcher is brought down, causing the fabric to fit closely around the block, and the brim to conform in shape with the base of the crown. Hats or bonnets may thus be formed from one or more pieces of palm-leaf fabric at one operation.

Claim.—The combination of the stretcher H with the clamps D. E., and former J, the

and parts being constructed and operating together as shown and described.

The combination of the movable suspension spindle L, and adjusting wheel I, with the structer H, substantially as shown and described.

No. 34,772.—C. W. PINKHAM, of Fond du Lac, Wis.—Improved Burning Fluid.—Patent cated March 25, 1862.—The fluid consists of a combination of refined petroleum, benzole, taphtha or benzine, gum camphor, and an essential oil. It is designed to be used in lamps

Claim.—The fluid, for illuminating purposes, composed of the ingredients, substantially

in the manner and proportions described and set forth.

No. 34,773.—A. P. PITKIN, of Hartford, Conn.—Improvement in Apparatus for the Manufacture of Illuminating Gas.—Patent dated March 25, 1862.—The liquid joint on the condenser is formed in this manner: The condenser is divided about midway up the sides by a brizontal partition; around the openings which admit the tube of the retorts, tubes of any esized beight are placed. Cylinders closed at the top are placed concentric to all the tubes; when the retort tubes are inserted in the tubes attached to the partition of the condenser, the cylinders cover the opening, and the sides reach nearly to the partition, thus forming Lquid air tight joint.

Clein.-First, making the front or back plate (one or both) with one or more collars c cas or put on to them, cylindrical shape, or otherwise, and sufficiently large to admit of the more being removed when bulged or expanded from use, substantially as described.

Second, making the retorts d, with one or more flanges or rings e cast or put on to them, trindrical shape or otherwise, and sufficiently large to fill the collars on the plate a'.

Third, forming an expansion joint for retorts by means of a liquid joint on the condenser a' cooler, substantially as shown and described.

No. 34,774.—HENRY PORT, of New York, N. Y.—Improvement in Metallic Moulds for Casing Pumps.—Patent dated March 25, 1862.—This invention consists in constructing the Casting Pumps.—Patent dated March 25, 1802.—I his invention consists in commuting the core for the barrel and those for the passages in such a way that they will all draw together for the purpose of making the barrels and passages of double-acting pumps together in a single piece. The slide is worked by a pinion on a shaft that projects through the end of the mould. After casting, and previous to separating the mould. the shaft is turned by a wrench on its outer end, and, by means of a pinion and rack on the slide, the latter is withdrawn into the central core.

Claim.—In the manufacture of double-acting pumps, the employment of a metallic mould composed of the plates or sections z and i, cores a and b, and the core or outer shall of the mould d, constructed and arranged substantially as described.

Also, the slide m, for the purpose set forth, when used in combination with a metallic

mould for casting pumps.

No. 34,775.—J. W. RICKER, of Boston, Mass.—Improvement in Corn Shellers.—Patent dated March 25, 1862.—The movable presser plate fits loosely on a tubular bearing in which the shaft of the shelling wheel runs. To the centre board are secured slotted tubes within which fit loosely pistons or rods, one end bearing against the back of the presser plate, the other ends being in contact with followers in the slotted tubes. The followers caused to move forward by means of weights attached to cords over pulleys, thus pressing the plate towards the shelling wheel. The face of the wheel is formed of alternate raised and depressed surfaces, studded with teeth.

Claim.—The combination and arrangement of the presser plate with the pistons, slotted

guide tubes, follower, and weights, all acting together, substantially as set forth.

Also, the formation of the surface of the shelling wheel in alternate depressions and elevations, both studded with teeth, as shown and described.

No. 34,776.—L. C. Rodier, of Springfield, Mass.—Improvement in Magazine Fire-arm.—Patent dated March 25, 1862.—In this fire-arm, metallic cartridges are used, which act as packing to the joint in the breech chamber. The claim and engraving explain the other parts of this invention.

Claim.—First, a fire-arm in which the breech chamber is divided longitudinally throughout a portion of its length at or near the centre of the bore, and the two parts hinged together at a point forward of the said division in the chamber when the two parts are so proportioned to each other and to the cartridge used that the cartridge shell shall extend forward of the forward end of this division, or joint, a sufficient distance to allow the shell to serve as a packing to the joint; the whole being arranged substantially for the purpose specified.

Second, the movable breech piece E, when used in combination with a breech chamber constructed as described, for the purpose of allowing the shell to be moved by the piece C.

in the manner substantially as set forth.

Third, the ring or ferule F in combination with the breech piece E, for confining it in its

place, when operating substantially as described.

Fourth, the combination of the movable wedge-shaped breech piece with the magazine G, having a spring for forcing out the cartridges contained therein, when said magazine is simated with relation to the bore of the breech chamber in such manner that the forward end of the magazine is a continuation of the bore of the chamber, so that the force of the spring in the magazine throws the cartridge directly into the bore of the chamber without the intervention of other device.

No. 34,777.—E. A. G. ROULSTONE, of Roxbury, Mass.—Improvement in Passing Bozes—Patent dated March 25, 1862.—The inner and outer layers are made of sheets of thin leather; the central layer is made from a sheet of papier-mache or other suitable stiffening material. The manner of connecting the parts is shown in the engraving.

Claim.—Making a passing, or other similar box, of the three separate layers of material as described, and bringing the side edges together so as to unite them by one seam, as set

forth

Also, constructing the cover C with the piece composed of a block of wood n, or its equivalent, covered by leather q, and its upper covering p, they being connected to the top, m described.

No. 34,778.—JOHN RUSH, of Philadelphia, Pa.—Improvement in Knapsacks.—Patent dated March 25, 1862.—The frame of the knapsack is made of two parts, hinged together. At the thick end of one part are pivoted two arms, which, when thrown out, rest upon the edge of the knapsack, and serve to hold the canvas for forming a bed.

edge of the knapsack, and serve to hold the canvas for forming a bed.

Claim.—The combination of the arms G G and sheeting K, either with or without the

arms M M, for the purpose of forming a bed of the knapsack, as described.

No. 34,779.—GELSTON SANFORD and J. E. MALLORY, of New York, N. Y.—Improvement in Machinery for Breaking Flax and Hemp.—Patent dated March 25, 1862.—In this machine the flax is presented to the cylinder at right angles to the length of the stalk, and is so acted upon that the fibre is effectually broken and cleaned. The large cylinder is provided with two series of grooves; into the smaller series the feeding cords, passing over the grooved cylinders g and h, serve to hold the flax upon the cylinder, where it is acted upon by two sets of bent beaters standing upon the large grooves. The beaters are attached to rocks shafts, which are caused to move by limbs upon a rotating wheel, striking against arms attached to the shafts.

Clsim.—The combination of the series of feeding cords, or the equivalent thereof, a grooved surface, or the equivalent thereof, and beaters, substantially as and for the purpose described.

No. 34,780.—J. B. SACKET, of Lawton, Mich.—Improvement in Machines for Dressing Milliones.—Patent dated March 25, 1862.—The pick handles work independently of each ther, and are provided at their outer ends with screw-threads, upon which are placed clamps, seven which, by means of nuts, are secured the picks, so that they may be separately disted as required. The sliding cylinder is provided with pins placed around its surface in sini form, for operating the picks, and is also encompassed by a cog wheel, one-half of hich is double the width of the other half, for the purpose of giving the picks an intermitat motion. Two cylinders E E' are provided with pulley blocks, connected by a cord, and, connection with gear wheels, cause the carriage bearing the picker cylinder to traverse sward and back. Thumb screws are made to tighten or loosen the cord which connects the

Claim.—First, the picks a a, clamps a' a', nuts c c and d d, and pick handles b b, when all all be constructed and arranged substantially as and for the purpose set forth.

Second, the employment of the sliding cylinder C, when provided with pins i i, in comnation with cog wheel D, substantially as described. Third, the cylinder E', when supported in the adjustable bearing described, in combination with thumb surews τ τ , for the purpose set forth.

No. 34.781.—GELSTON SANFORD and J. E. MALLORY, of New York, N. Y.—Improvement a Machines for Scatching Flaz and Hemp.—Patent dated March 25, 1862.—In this device the ax is best alternately in opposite directions by the action of the scutching bars, and thus I woody matter and other foreign matter are separated from it.

Clair. - Arranging two series of scutching bars on two sets of hubs and arms, or on two us of heads or wheels, as the equivalent thereof, the two series being geared to rotate in posite directions and with equal velocity, and set so near that the bars constituting each ses shall, in the rotation, pass in the spaces between the bars constituting the other series, d near to the axis of rotation, as described and for the purpose set forth.

No. 34,782.—James Sangster, of Buffalo, N. Y.—Improvement in Lamps.—Patent dated arch 25, 1862.—The claim and engravings explain the nature of this invention.

Claim.—The described lamp burners constructed as represented, to wit: With the cone K, regated around its upper aperture, and terminating in points at its lower extremity, the use A, and the wick tube B, provided with gutters at its top and having its edges bent state, as described; the several parts being constructed and arranged together for forming amp burner, as is fully set forth.

No. 34,783.—C. B. SAWYER, of Fitchburg, Mass.—Improvement in Hot-Air Registers.— tent dated March 25, 1862.—An upright cylindrical flanch or partition is secured within ergister, so that, in connexion with the sides of the register, it forms a water chamber rough which the hot-air pipe passes.

Claim.—Combining a water chamber with a hot-air register in such a manner that the hotpipe shall pass through the water chamber, substantially as set forth.

No. 34,784.—A. G. SEARLS, of Cleveland, Ohio.—Improvement in Churus.—Patent dated arch 25, 1862.—By the action of the beater the cream is not carried around, but is forced to the corners and against the sides alternately, thus producing friction and accelerating the

Claim.—The attachment of the beaters C C to a revolving disk or cover B, in combination ih a square casing A, as and for the purpose described.

No. 34,785.-W. H. SEYMOUR, of West Hartford, Conn.-Improvement in Heaters.then dated March 25, 1862.—The fire box is surrounded by a series of hot-air and water hanten, each of which is provided with flange radiators. The wedge-shaped projections Emecing the water space with the exterior surface of the fire pot, together with the flange,

a... and water radiators, are designed to keep the fire pot below red heat.

Claim.—First, the combination of the water belt D, figure 1, and its connecting points F,

with the air space C, extending from the fire pot A to the said water belt, substantially as

represented, and for the uses set forth.

beaud, the combination of the flange radiators E, figure 1, projecting from the water belt D Dio the air space C, with the flange radiators B projecting from the fire pot A, substantially

is and for the purposes represented.

Third, the peculiar construction and arrangement of the upper section of the device reprethied in figures 7 and 10, including its pipes J K and N, and its caps L and M, substantially s and for the purposes specified.

No. 34,786.—S. B. SKIFF, of New Bedford, Mass.—Improved Vise for Holding and Swaging Investors.—Patent dated March 25, 1862.—The nature and object of this invention are

Eplained by the engraving and claim.

Claim.—A hinge vise A' B', with the movable and adjustable dies G' G' affixed to the aws J' J', on which to form the calks of shoes, the treadle D', and friction wheel E', construction wheel Ructed and operating substantially as and for the purpose set forth and described by

No. 34,787.—Joseph Slocum, of Syracuse, N. Y.—Improvement in Petato Diggen.— Patent dated March 25, 1862. -The share is formed with double concave sides, and a projecting edge in front, the rear being provided with a series of parallel rods, and is attached the front inclined part of the standard, by which means the potatoes are taken from the ground and separated from the earth. Horizontal and vertical bars are so fitted to the front being bar and wheels, as to admit of a ready adjustment as to height and width.

Claim.—The combination of the standard C with the undulating or double-concave report able share H, and rods, arranged and operating in connexion with the adjustable plate.

bars E, and bar D', as and for the purposes shown and described.

No. 34,788.—C. W. SMITH and T. D. STETSON, of New York, N. Y.—Improvement in the Plungers of Concussion Shells.—Patent dated March 25, 1862.—The object of this investa is to cause the shell to explode at the right moment, avoiding the liability to premaure 🖘 charge.

Claim.—The use of soft material, such as lead or its equivalent, in the percussive mechanic

of shells, substantially in the manner and so as to produce the effect set forth.

No. 34,789.—CARLOS STEBBINS, of Pike, N. Y.—Improvement in Sewing Machinet Patent dated March 25, 1862.—The toggle joint is so arranged that after the complete date. ward movement of the needle, the former is carried a little way beyond the straight peedwhich causes the needle to rise a short distance for the passage of the shuttle between it thread and needle. In coming back to the straight position, the toggle depresses the trees again, preparatory to its withdrawal, which is effected by the greater movement of the legs in the opposite direction.

Claim.—First, obtaining the movement of the needle of a sewing machine from a cult or its equivalent through the agency of a pitman and toggle joint c, applied and amages combination with the said crank or equivalent, to operate substantially as specified

Second, transmitting motion from the crank A or its equivalent to the vibrating feel is K', by means of a system of levers C G H M O and connexions and slide X, arranged P plied, and operating substantially as set forth.

No. 34,790.—J. H. STEVENS, of East Durham, N. Y.—Improvement in Machine Spreading Manure.—Patent dated March 25, 1862.—This invention consists in the empty. ment of an endless flexible belt for the bottom or flooring of a wagon body, and arms in connexion therewith a series of buckets and a conducting tube, whereby the wages proceeds, is made to deposit the manure upon the field in hills or in drills, as desired

Claim.—First, the arrangement of the endless flexible bed C, windlass shaft J. 222.3 connexions, in combination with the buckets D, spring f, and conducting tubes GHI is

whole combined and operating in the manner and for the purpose described.
Second, the arrangement of the endless flexible bod C, rollers B B, sides A, conducted. tubes G H I, and framing F, the whole supported upon wheels and operating in the mass. and for the purpose described.

No. 34,791.—C. A. STEVENS and J. V. ROCKWELL, of New York, N. Y.—Instructed in Portable Stoves.—Patent dated March 25, 1862.—The back and side plates are optically by joints to the top plate, and the doors are similarly connected to the side plates to aim of being folded flat together when not in use, and readily adjusted for use when required

Claim.—The combination of the top plate A, furnished with holes and having total attached to the plate, as shown, with the side plates C C, back plate B, and doors D D 12 whole constructed and hinged together to make a folding stove, substantially as set forth

No. 34,792.—M. L. and O. A. STRAY, of Willoughby, Ohio.—Improvement in Fruit kets.—Patent dated March 25, 1862.—Across the perforated cover is secured a shi with extends beyond the edges, and turning under inclined strips secures the cover to the bake. Claim.—The combination of the perforated cover and basket when the same are constructed and secured together, as and for the purpose specified.

No. 34,793.—F. G. L. STRUVE, of Jefferson, Wis.—Improvement in Feed Racks.—Parts dated March 25, 1862.—This invention is designed to save the seed and finer leaves and rewent the fine particles of hay from getting into the wool of the sheep. The hay is first part upon the rack in its lower position, the seed, &c., falling into the box below. The rack raised when the hay is apparently and expended on the box below. raised when the hay is consumed and suspended on hooks, thus giving the animal access in the box to eat the seed and fine hay.

Claim.—The arrangement of the notched arms D D' or their equivalents in combinate with the movable rack or racks A A', constructed and operating substantially in the manual

and for the purpose shown and described.

No. 34,794.—David Tanquary, of Carmi, Ill.—Improvement in Stump Extracter. Patent dated March 25, 1862.—The sweep or lever is made to turn a ratchet wheel which a prolonged axis passing through the sweep, confined by a nut, through which a screw red

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sases. The revolution of the sweep raises the rod, to the lower end of which a stump may re attached.

Claim.—The application, combination, and arrangement of the sweep G, the hook E, the ping F, the nut as seen in Fig. 3, and the rod I, constructed as described and operating as ad for the purposes substantially as set forth.

No. 31,795.—L. H. THOMAS, M. D., of Waterbury, Vt.—Improved Clothes Wringer.— havet dated March 25, 1862.—The spring is secured to the under part of the top of the name, its free ends resting upon the rounded parts of the block below, for the purpose of llowing an easy and regular adjustment to the upper roller.

Claim.—The shape and construction of the self-adjusting block K and spring N, combined

a described, as and for the purpose specified.

No. 34,796.—G. W. WALKER, of Boston, Mass.—Improvement in Stoves.—Patent dated darch 25, 1862.—The engraving and claim explain the nature and object of this invention. Claim.—A stove made or furnished with a discharging spout or conduit, or its equivalent, and a rake-receiving passage leading from its ash chamber, substantially as described, whereby seles may be raked or discharged from the said ash chamber into a covered pail contracted with an ash-receiving hole or induction pipe to communicate with the ash chamber brough the discharging opening or spout thereof, as explained.

No. 2,797.—MAXIMILIAN WAPPICH, of Sacramento, Cal.—Improved Apparatus for Suppus Space Rudders.—Patent dated March 25, 1862.—Braces and steps, besides those used for sustaining the rudder, are attached to the rudder post of a vessel, so that in case the adder is broken off from its fastenings a new rudder can be shipped in the reserve steps tached to the post. In this way any inconvenience arising from injuries to the rudder or adder fastenings can be remedied without docking the vessel. The metal gudgeon attached the top of the shaft of the rudder, revolves in a brass top which is fixed in a bar attached the rudder frame. This bar is supported by springs, thus avoiding injury to the rudder sing from jars and shocks. The vertical pins are provided with friction rollers, by which read the lips of the rudder yoke are made to bear upon these pins with less friction than unarily is the case. The tong W, which is used in shipping the rudder, supports its lower id, and projects far enough beyond the rudder to play on the rudder post. This tong is id in a horizontal position by allowing its arms to rest upon pins upon the sides of the uder, which pins, after the rudder is shipped, can be drawn out, and the tong can then be mored.

Claim - Providing the sterns of vessels and their rudders with reserve braces, pintles, and

eps, substantially in the manner and for the purpose set forth.

Also, a rudder having a metal bearing E, in combination with a cross-bar L, springs M and M, encircling boxes K, substantially in the manner and for the purpose specified.

Also, the rudder yoke O, having lips V in combination with the vertical pins T and cylin-IN U, the whole arranged and operating substantially in the manner and for the purpose

 Λ so, for shipping and unshipping vessel rudders, the application of a shipping tong W, ibstantially in the manner and for the purpose described.

No. 34,798.—M. S. WICKERSHAM, of Philadelphia, Pa.—Improvement in Explosive Shells in Ordnance.—Patent dated March 25, 1862.—The object of this invention is to cause a emption of the shell at many points or in many lines, instead of at a few points, as in shells nih interior surfaces of regular form.

Claim.—The construction or manufacture of explosive shells with their interior surfaces moved furrowed, corrugated, or otherwise indented, substantially as and for the purpose

pecified.

No. 34,799.—ABEL WILSON, of Frankford, Pa.—Improvement in Soldering Irons.—Patent duted March 25, 1862.—The jaws are concave on the inside, so as to fit the convex edges of the shank, and their exterior is made tapering, to fit the inside of the ferule. Upon the threshel port on of the stem is a nut, between which and the smaller end of the ferule is a Washer, so that in turning the nut the ferule will be forced over the tapering jaws, firmly graphs the shank of the copper bar, by which means the bar can be readily tightened when it becomes loose, and easily attached and detached.

Claim.—The tapering jaws B and B', adapted to receive the tapering shank d of the copper bar, and secured to or forming a part of the stem A, in combination with the tapering ferule G and the nut H, or its equivalent, the whole being constructed and arranged substantially

and for the purpose set forth.

No. 34,800.—A. B. WILSON, of Waterbury, Conn.—Improvement in Photographic Came-ins.—Patent dated March 25, 1862.—The holder for the negative glass and the bath is made of hard rubber. An adjustable crooked stem funnel, inserted from the outside of the box, fits ale a hollow journal, which serves to keep out light and admits of the nitrate of silver, &c.,

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being poured in as well as out. The holder of the focus and negative glasses is placed on bearings in the sides of the box, and made to turn up or down by a key on the outside—the object of the invention being to provide a means for dispensing with the necessity of removing the negative from the camera to and from a dark room or place, for immersion in the bath

Claim.—First, a negative plate and bath holder having a hollow journal, channel and

throat, constructed and operating substantially as and for the purposes described.

Second, the hollow journal described for introducing and withdrawing the baths.

Third, the combination of a negative plate and bath holder, having a hollow journal chiral combination. nel and throat, as one instrument, with the crooked stem funnel, constructed and opening

substantially as described. Fourth, giving the combined negative plate and bath holder the capacity of assumz horizontal and perpendicular positions at will, in the manner and for the purposes descibe

Fifth, the combination of camera-box, crooked stem funnel, hollow journal, channel and

throat, and fluid-tight holder, substantially as described.

No. 34,801.—E. F. WOODWARD, of Brooklyn, N. Y.—Improvement in Coffee Boilen. Patent dated March 25, 1862.—The bottom of the boiler consists of a coiled tube commence at the periphery where it opens into the upper plate and terminating at the centre, what a extends up vertically a short distance. Over this extension is fitted a perforated received inverted conical or other shape, for holding the coffee, and on the under side of the cover is perforated cone, resting upon the top of the receiver, which serves to prevent its rising as conducts the heat to a supplementary boiler above. Heat under the boiler causes a carlation down through the tube and up through the coffee.

Claim.—Causing a circulation by means of a tubular or channel-formed bottom, as a

forth.

Also, forming the tubular bottom by means of one or two corrugated plates, as special Also, in combination with the circulating apparatus, the receiver specified.

Also, the cone c, or its equivalent, for conveying heat to the upper reservoir d, as describe-

No. 34,802.—WILLIAM BOYERS, assignor to J. L. LIVINGSTON and J. B. SHAFFE & Mount Carroll, Ill.—Improved Rotating Clothes-Dryer.—Patent dated March 25, 182—The pulleys and endless cord are designed to be so arranged that a person may place to clothes upon and remove them from the line while standing at a door or window. The standing at a door or window. grooves in the pulleys are for the purpose of raising up the line when depressed by the walk

of the clothes or by the slacking of the cord.

Claim.—The combination of the spiral grooved, bell-shaped, flanged pulleys, stacked by braced projections to a building, or placed upon three or more posts in connexion with the endless cord, all arranged substantially as and for the purpose specified.

No. 34,803.—C. R. Alsop, of Middletown, Conn., assignor to J. W. Alsop, of New York, N. Y .- Improvement in Revolving Fire-arms .- Patent dated March 25, 1862 .- A fixed bran or abutment is rigidly secured within the stock frame, in the rear of the shaft of the war within recoil shield, for the purpose of constructing a bearing for the wedge by which the cyling is forced up toward the barrel before firing, the wedge being arranged to work between brace and rear end of the recoil shield, and is attached at its head by a pin to a kee stad operates the wedge; the object being to secure a perfectly tight joint between the change and cylinder while firing.

Claim.—The arrangement of a wedge H, with the rear of the recoil shield shaft F, and stationary abutment or bearing G, substantially as shown and described, for the purpose et

No. 34,804.—S. T. Holly, assignor to Mary Manny, of Rockford, Ill.—Improvement in Harvesters.—Patent dated March 25, 1862.—The improvements under this inventor designed to be applied to a "Manny Combined Ha vesting Machine." The nature at: object of the invention, which does not admit of a brief description, are expressed by -claim.

Claim.—The combination of a caster wheel, with a tongue in advance of it, and with '> part of the machine that is behind it, by means of a compound spindle box fitted with with trunnions, and with fastenings for the tongue, the combination as a whole being substant.

as described.

Also, the combination of the cutter frame of a harvester, the hinged part of the marks which precedes it, a thrust bar jointed to one portion of the machine, and an elevated direct seat and standard secured to the other portion of the machine in such manner that the diff can exert the muscular force of both his leg and arm in elevating the finger beam, subsist tially as set forth.

Also, the combination of the thrust bar with a rack and spring catch, the former less secured to the thrust bar, and the latter being connected with the standard to which attendant's hand is applied when the finger beam is to be raised or lowered, substantaily

set forth.

Also, combining the driver's seat with the frame of the machine, by means of the frame the rake mechanism, so that this last frame performs two functions, substantially as described

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Also, the combination of the main gathering arm of a rake with a crank that moves in a horizontal plane or thereabouts, and with a rake crane having a cam plate that is horizontal or thereabouts; the combination as a whole being and operating substantially as described.

Also, the combination of the projecting end of the secondary gathering arm of the rake with an arm of the crane that is at the same side of the crane axis, by means of a radius bar pivoted to the arm between the axis thereof and the main gathering arm of the rake, substantially

Also, the combination of the palm with the part of the rake mechanism that supports it, by means of a joint located at or near the lower edge of the palm, and a spring that causes the paim to turn upon this lower joint, substantially as described.

Also, the combination of an intermediate cog-wheel shaft of the rake mechanism with an

oscillating box operated by a lever, substantially as described.

No. 34,905.-W. H. MATTHEWS, of Chelsea, Mass., assignor to Williams & Co., of Boston, Mass. - Improved Lamp Shade Holder .- Patent dated March 25, 1862. - The springs which hold the shade to the glass are so shaped as to act as a jaw in securing the shade to the holder, whereby an additional ring is dispensed with. One end of the holder ring is made to lap over the other, the ends being fastened by a slot and pin so as to enable the springs to

be inserted in the upper part of the shade.

Claim.—The improved shade-holder as made with the contractile ring and with its springs provided with jaws i, so as to operate with such ring and against the paper shade, substantially

Also, the arrangement and combination of the inner ring with the springs made with the aws, as described, whereby the said springs and inner ring may be employed to hold the lamp shade to the outer or main ring.

No. 31,806.—B. L. BUDD, of New York, N. Y.—Improvement in Shot Cartridges.—Patent dated March 25, 1862.—The claim and engravings explain the nature of the invention.

Claim.—The method of forming fixed charges of shot so as to be capable of being used without wrappers or cases of any kind, by pouring among the shot while in a mould some tany fusible material, as grease, stearine, &c., which on cooling will fix the shot, and when ischarged from the mould will retain said shot in the order and form they took in the mould, in the manner and for the purpose described.

Also, in combination with the above, the method of connecting the cut wads to the two wh of the charge by a leaden wire or rod, or other equivalent material, passing into or

brough the mass of shot, as described.

No. 34,807.—J. W. BARTLETT, of New York, N. Y.—Improvement in Needle Gauge and Adjuster for Sewing Machines.—Patent dated April 1, 1862.—This device is for the purpose feedily determining the size of the needle and adjusting it to the machine in use. The needle is inserted through the gauge plate to just above the eye; the point of the bent of passes into the eye of the needle, the rod being adjusted to the right position by a set knew on the end of the bar.

Claim.—A needle gauge and adjuster combined, substantially as set forth.

No. 34,808.—HENRY BEHN, of New York, N. Y.—Improvement in Machines for Splitting Riadling Wood.—Patent dated April 1, 1862.—An adjustable support, which holds the wood to be split, projects through and hooks in a slot in the frame, being held in position by an sum reside mine in racks on the frame. At the top of the frame is hinged a lever provided on its make side with the world in the state of the state ander side with an eccentric knife, by which the wood is split.

Claim.—The arrangement of an eccentric chopping knife D, in combination with a movable support E, for the purpose of splitting kindling wood, when the whole is constructed and

Genting in the manner substantially as described.

34,809.—DAVID BENNET, of Stratford, Conn.—Improved Ice Shoe or Calk.—Patent died April 1, 1862.—A thin piece of metal turned up at the heel extends to the ball of the fort, upon this metal are riveted two cross-bars turned up at the ends to fit the width of the and provided with sharp points; the plate is secured to the foot by straps.

Claim.—As an improved article of manufacture, an ice shoe or foot calk composed of a central longitudinal connecting bar a, and two-pointed rectangular cross-bars b c, united

together and otherwise constructed and operating as shown and described.

No. 34,810.—ABEL BREAR, of Saugatuck, Conn.—Improved Device for Raising Water by Stem.—Patent dated April 1, 1862.—This apparatus consists principally of a steam pipe, the mouth of which enters and is surrounded by a socket, in which is an opening for the admission of water or other liquid to be raised from the well, reservoir, or other source of supply, and from the state of the direction of the state of the state of the direction of the state of the state of the state of the direction of the state of the and from which a delivery pipe leads to the point where it is to be delivered; the direction of the steam pipe being the same as that of the continuous portion of the delivery pipe. The inco of the entering steam repels the water from the delivery pipe, and the place of the water so expelled, is supplied by water forced into the socket from the well by the pressure of the almosphere.

Claim.—The combination of the steam or air pipe A, the open socket c, and the delivery pipe D, with the check valve F and the chamber G, the whole operating substantially as and for the purpose specified.

No. 34,811.—ABEL BREAR, of Saugatuck, Conn.—Improved Mode of Discharging the Contents of Sugar Kettles and other Vessels.—Patent dated April 1, 1862.—The claim and

engravings explain the nature of this invention.

Claim.—The employment for the discharge of open kettles or vessels, used in boiling or evaporating processes, of a movable cover B and pipe C, the cover being so fitted to the rim of the kettle or vessel that by placing it thereon temporarily, the contents of the vessel may be expelled through the pipe by the steam generated within the kettle or vessel itself, substantially as specified.

No. 34,812.—H. P. BRIGGS, of Brookfield, Conn.—Improved Washing Machine.—Patent dated April 1, 1862.—The tub is secured to a bench. The bottom of the tub is provided with diverging ledges, over which is a disk with similar ledges attached to a spindle upon which the disk is made to semi-rotate by means of hinged levers connected by rods to a yoke on the upper part of the spindle. A spring over the yoke serves to press the disk upon the clothes.

Claim.—The arrangement of a tub with the ledges d, upon a form or bench a, in combination with the disk a and ledges d', spring m, hinge levers i, yoke g, and arms k, substantially

in the manner as and for the purpose described.

No 34,813.—T. H. Burgess, of Boston, Mass.—Improvement in Portable Sewing Work Cases.—Patent dated April 1, 1862.—The case, which is made of metal, is divided into two compartments, one of which is designed to contain one or more spools upon a wire attached to each end of the compartment. The case is attached to a flexible flap which folds around it, on the inner side of which may be attached fixtures to hold scissors, thread, &c.

Claim.—The improved traveller's work case, or construction or arrangement of the rotary spool or spools, and their arbors, or its equivalent, the metallic case and the flexible flap provided with a scissors' sheath and needle leaves or other devices for sustaining articles useful

for mending or making clothing.

No. 34,814.—T. M. Bush, Hartland Township, Ohio.—Improvement in Sawing Machines.—Patent dated April 1, 1852.—This arrangement is designed for a cross-cut saw. The log rests in a socket upon the carriages and is held firm by an arm extending out from the frame, and having upon it a gripe; after the log passes the saw, a catch attached to the frame holds the log after the first cut. The levers hold the log steady and prevent it from falling immediately after having been cut. The saw moves in a hinged frame, so as to readily follow the cut through the log.

Claim.—The arrangement of the gripe binder A, dog B, the connected levers C and D, the hinged swing guide F, all operating together and in combination with the main frame and the log-feeding and saw-guiding and operating mechanism, in the manner and for the

purpose substantially as described.

No. 34,815.—WILLIAM BUSH, of Wilmington, Del.—Improvement in Tanning for Morocce and other Grain-finished Leather.—Patent dated April 1, 1862.—A set of ten vats are used, in each of which a frame is hung upon a pivot in the centre. Across each frame are laid strips from which the skins are suspended. The frames are kept in constant motion by means of a pitman attached to a rock shaft, to which motion is given by any convenient power; the object being to dispense with sewing the skin into a bag and applying pressure, to prevent the drawing and wrinkling of the grain, which in this invention is designed to be effected by the weight of the skin.

Claim.—The application of the principle of tanning without sewing and pressure to the manufacture of goat, sheep, calf and other small skins into morocco and other grain-finished leather, by suspending the skins by the neck, forward shanks or otherwise, perpendicularly to a frame, which frame has a constant oscillating motion in a vat of tanning liquor, as de-

scribed.

No. 34,816.—S. G. CLARKE, of Cleveland, Ohio.—Improvement is Stills for Coal Oils.—Patent dated April 1, 1832.—The steam retort is designed to receive the crude oil, which is admitted by a tube from the tank A. The flow of oil is regulated by a valve in the tube connected, by means of a rod and oscillating beam, with a float in the vessel B, by which means the oil in the retort is kept at a uniform height. Steam is admitted directly into the retort, and thus the more volatile portions of the oil are volatilized and pass off with the steam into a condenser. The remaining oil passes through a tube traversing the flue of the fire retort C, into said retort, which is constructed similarly to a single-flue steam boiler. Here the oil is distilled and the residuum is conducted by the tube I to the vat K, from which it flows into channels upon the bars of the fire-grate, and is there burned. By this arrangement a continuous distillation can be kept up without stopping the operation in order to remove the residuum from the retorts.

Claim.—First, the described combination of the steam retort B with the fire-heat retort G,

arranged and operating as and for the purpose specified.

Second, the described devices for the continuous discharge of the residuum, and the burn-

ing of the same, as and for the purpose set forth.

No. 34,517.—CHARLES COALE, of New Brighton, Pa.—Improved Japan Varnish.—Patent dated April 1, 1862.—The ingredients of which this composition consists are linseed oil, gum sheliac, red lead, sugar of lead, litharge, Turkey umber, and benzole.

Claim.—The described composition for Japan varnish, made of the ingredients specified,

and mixed together in about the proportion as set forth.

No. 34,318.—G. J. COLBY, of Waterbury, Vt.—Improvement in Fastening India-rubber Rolls to Metallic Shafts.—Patent dated April 1, 1862.—This invention is explained by the

Claim.—The application of a greater degree of heat to the shaft than was used in vulcanising the rubber, and sufficient to slightly melt the rubber as the shaft is forced into it, thus forming a lubricator until the shaft is in place, and then by immediately cooling the melted rubber becomes a cement that unites the shaft and rubber firmly together.

No. 34,819.—G. H. DODGE, of Camden, N. J.—Improvement in Pumps.—Patent dated April 1, 1862.—The plungers consist of hollow cylinders, and are so connected to the piston rods, and provided with an internal and external valve, that the water can have an uninter rupted passage through the interior of the plungers. The plungers bear against one packing the plungers of the plungers. ing only, being free from contact with the interior of the barrels. The packing is tightened upon the plungers when necessary, by tightening the nuts of the bolts which connect the most and rear ends of the two barrels. Over the inlet pipe is a foot valve having a projection which rests against a metal disk on the end of a screw to, which passes through a hollow sarew E, furnished on its outer end with a handle, the former having a longitudinal groove cut in it; the object of this arrangement being to allow the water to escape from the barrels when liable to freeze, the groove allowing access of the air to facilitate the passage of

Claim.—First, the upper and lower barrels with the communicating passage c, the branches w and m, and foot valve n, in combination with the hollow plunger D, and its valve h, and the hollow plunger D', and its valve i, the whole being constructed, arranged, and operating as and for the purpose set forth.

Second, the hollow plungers D and D', with their respective valves, and the packing Fixces ff, when the latter are confined between the two portions of the barrels, as set forth,

Third, the grooved scrow E, its metal disk or washer t, and packing washer s, in combiestion with the foot valve n and the projection p, the whole being arranged for joint action, substantially as and for the purpose specified.

No. 34,820.—ADAM DOMIS, of New York, N. Y .-- Improvement in Cartridge Box .-Patent dated April 1, 1862.—This invention consists in the arrangement of a cylindrical revolving case provided with a series of chambers to receive cartridges, and furnished with a spring stop, in combination with an outlet opening, and with a series of recesses in its rim In receive the point of the spring stop, and to arrest the revolving case at the desired interin such a manner that by revolving the inner case one cartridge chamber after another can be brought before the outlet opening in the outer cylinder to receive or discharge its causing or that all the chambers can be brought in such a position as to be closed by the in of the outer cylinder, and that the outer cartridges in the same are fully protected, the whole being conveniently carried in the pocket.

Claim.—The arrangement of the revolving case A, with chambers B, and spring stop a, recombination with the outer cylinder E, having a notched rim and an outlet opening g,

Enbetantially as and for the purpose shown and described.

No. 24,821.—Lewis Eikenberry, of Philadelphia, Pa.—Improvement in Variable Cutoff Vales.—Patent dated April 1, 1862.—The valve mover is an eccentric, and is attached
to the shaft of the fly-wheel of the engine. The shifter is a tube moving upon the shaft and
fining into an eye in the valve mover. The shifter is provided with an oblique longitudinal siot on one side and a straight longitudinal slot on the other. A movable cam having a fixed position longitudinally is attached to the valve mover in such a manner that, as the moves backward and forward upon the shifter, the sides of the wedges bearing against the morable piece D', force it out so as to change the configuration of the circumference of the valve mover. The shifter is attached to the governor of an engine so that the cut-off is regulated automatically by the working of the fly-wheel.

Claim.—First, the shifter C, constructed substantially as described, in combination with cam, eccentric, or movable piece D', which has a fixed position longitudinally, whereby a rester or less circular movement in the cam, eccentric, or movable piece is produced, and is the same time the said cam, eccentric, or movable piece is held by the shifter at any de-

ired point of adjustment on its shaft, as set forth.

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Second, the movable piece D', substantially as and for the purpose set forth.

Third, the combination with an engine governor of a movable piece D', which has a fixed osition longitudinally, as described, and also of the movable piece D' and shifter c, combined, substantially as and for the purpose described.

No. 34,822.—Lewis Eikenberry, of Philadelphia, Pa.—Improved Device for Operating Valves of Steam Engines.—Patent dated April 1, 1862.—This invention consists in the combination with the valve or valves of a steam engine, of a valve mover, so formed as to operate the valves in such a manner that they may remain still, or have but a slight movement for a portion or the whole effective stroke of the piston, after the steam has been admitted and cut off, and at the same time the exhaust at the opposite end of the cylinder remains open during any portion or the whole of the effective stroke of the piston, as circumstances may require.

Claim.—The devices, substantially as specified, for producing the results set forth.

Ko. 34,823.—J. P. Evans, of Hanleton, Pa.—Improvement in Steam Boilers.—Patent dated April 1, 1862.—A series of tubular bars of elliptical or similar form in their transverse section, is combined with a series of alternately interposed tubular or solid bars of round form. The elliptical bars, by exposing a great portion of their surface to lateral contact with the fire, cause a more rapid generation of steam. Within and at the ends and sides of the fire-box are arranged bent pipes of elliptical or flattened tranverse section, connected each at one end with the upper part of the water space surrounding the fire-box, and at the other end with a lower portion of said water space, so that they are exposed to the heat of the fuel and of the flame and heated gases, thus causing a rapid generation of steam, and also a rapid upward circulation of water to prevent overheating.

Claim.—First, having the fire-grate made with an alternate arrangement of large ellip-

tical tubes and small cylindrical tubes or bars, in the manner and for the purpose shown

Second, the arrangement of the elliptical pipes D and connecting pipes E with each other and with the boiler A, as shown and described.

No. 34,824.—JACOB FELSING, of Granville, Wis.—Improvement in Grain Separators.—Patent dated April 1, 1862.—The pitman may be connected to the sieve frame at a point to or further from the end, or it may be attached to the large or small cog-wheel, for the purpose of imparting a more or less rapid motion to the sieve.

Claim.—The arrangement of the pitman as connected with the sieve frame at the points L or K, and the wheels E B, for the purpose of imparting a more or less rapid movement to the sieves, constructed and operating substantially as set forth.

No. 34,825 .- J. McAulay Gallagher, of Roxbury, Mass .- Improved Fertilizing Composition.—Patent dated April 1, 1862.—The liquid animal matter forming an ingredient of this composition is obtained by condensing the gases and vapors rising or expelled during the process of charring or burning the bones.

Claim.—The described fertilizing composition made of animal charcoal, sulphuric acid. and liquid animal matter, substantially as set forth.

No. 34,826.—WILLIAM GEE, of New York, N. Y.—Improved Soda Water Apparatus. Patent dated April 1, 1862.—The inlet and outlet pipes above the cylinder being closed by valves, water is forced into the cylinder by the pump to a height indicated by a discharge valve. The gas is then passed into the cylinder, and impregnates the water, when it can be drawn off as desired, and the operation of filling the cylinder with water and impregnating the same with gas may be repeated as often as required.

Claim.—The application and use of a pump, for the purpose described, when used in combination with a cylinder having connected therewith the described pipes and valves, substantially as described and arranged, so that when the whole combination, on being operated, I am enabled thereby to supply and gauge the quantity and gas required within the cylinder, for the purpose set forth and described.

No. 34,827.—WILLIAM GIBB and R. J. BELL, of Carlisle, Pa.—Improved Clothes-Wriager. -Patent dated April 1, 1962.—The parts are so constructed and arranged that an increase of pressure between the rollers is always accompanied by a tightening of the clamp, thus avoiding the danger of forcing the machine from its hold upon the tub in heavy work.

Claim.—Attaching together the frames of a clothes-wringer by an adjustable box strap-

hinge joint, whereby they may be adjusted to fit tubs or other suitable supports of different thicknesses, and to clamp the same with a degree of pressure regulated by and corresponding with that of the rollers on the clothes, substantially as described.

No. 34,828.—JOHN GROSS, of Manilla, Ind.—Improvement in Cultivators.—Patent dated April 1, 1862.—A pendant upon the end of the guide-bar is so adjusted that it may be at the same distance from the end points as the points are apart. When the machine is down

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back over the field, the driver places the end point in the mark drawn by the bar upon the guide-rod. The operation of the other parts of the machine will be seen from the engraving.

Claim.—The lever frame B, with levers C and adjustable points D, when operated in connexion with the frame A, with the guide bar F, and rollers I I, by means of the standards E, the whole being arranged and operated as set forth.

No. 34,829.-H. C. GLASGOW, of Chicago, Ill.-Improvement in Brakesman's Cab.-Patent dated April 1, 1862.—This invention consists of a frame so constructed and arranged as to be readily attached to the top of a freight car when required, and folded in a small compass when not in use; the object being to protect the brakesman from wind and storm. Claim.—The brakesman's cab, when constructed substantially in the manner and for the purposes set forth.

No. 34,630.—M. T. GLIMSDAL, of Madison, Wis.—Improvement in Seeding Machines.—Puent dated April 1, 1862.—The bottom of the seed box is formed of a series of transverse perforated plates and blocks placed alternately, the upper surface of the blocks inclining downward each side. Below the bottom of the box is a shaft whose journals slide in their bearings, and are provided with holes made circumferentially in rows, the holes of the several rows differing in size adapted to the kind of seed to be passed from the hopper. A shaft made adjustable as to height, is provided with wire or rods passing over each plate, to spitate the seed and prevent clogging. To the back part of the frame is attached a draught rod connected by a pin to a draw-head at the front end of a rectangular frame which carries s rolls femed in two parts, for the purpose stated in the claim.

Claim.—First, the combination of the plates a and blocks b, fitted in the seed box H, as storm in connexion with the rotating shaft M, provided with loose transverse rods a^* , and placed within the seed box H, and the adjustable rotating seed-distributing shaft J, provided with a series of circumferential rows of holes, 1 2 3, all arranged for joint operation, as

Second, attaching the roller E' to the frame A, by means of the draught rod B', pin o' and draw-head C', as shown, for the purpose of allowing the roller an adjusting movement independent of the frame A, as specified.

No. 34,831.—A. J. GIBSON, of Worcester, Mass.—Improvement in Burners for Coal-Oil Laspr.—Patent dated April 1, 1862.—The flange upon the base of the chimney fits between the plate and the elastic removable plates; the other flange fits into a hook c upon the cone. Underneath the arm D the plate F is fastened by a rivet so that it can be moved in a horizontal plane. When this plate is in position, it attaches the cone to the burner, to allow the the expansion of the glass and the ready removal of the cone and chimney from the burner. Claim.—The removable cone C, provided with the hooks c c and arm D, in combination with the elastic adjustable plates E F, attached to the arm and arranged in relation with each other, and respectively with the chimney and burner A, substantially as and for the purpose set forth.

No. 34,832.—JOEL HAAG and J. C. SMITH, of Bernville, Pa.—Improved Water-Wheel.— Patent dated April 1, 1862.—The spiral water-way is so constructed as to have a large inlet opening leading from the reservoir, and gradually diminishing in width to the wheel which splaced upon and concentrically with the spiral water-way, so that the greatest possible quantity of water is made to act upon the wheel and still retain a spiral motion.

Claim.—First, the employment of the spiral water-way contracting in two directions as it

spreaches the wheel, as and for the purpose set forth.
second, the use of the buckets being of a concave spiral form gradually diminishing in Figh from their lower to their upper ends, and having semicircular formed bottoms and flat the so formed that the water is easily and quickly discharged, as and for the purpose

No. 34,833.—JOHN HOLMES, of Boston, Mass.—Improved Ball Furniture Caster.— Pant dated April 1, 1862.—The bearing rollers revolve on journals or exes in an interior are, arranged in radial directions with reference to a common centre placed in the vertical us of the caster, so as not to bear against the top of the inner case.

Claim.—The improved ball caster, as made with the two cases A C, arranged with the ball

and the bearing rollers and the axis of the latter, substantially as described.

No. 34,834.—P. H. JACKSON, of New York, N. Y.—Improved Vertical Windlass.—Parent dated April 1, 1862.—The wheel gears with a pinion attached to an ordinary capstan; the chain barrel on the elongated hub can be disconnected from the capstan head by means

of a rod passing through the capstan and fitting sockets in the face of the chain barrel.

Claim.—The employment of the elongated hub 2, of the wheel b, to receive the capstan head s, in combination with the chain barrel f, fitted to rotate on the said hub between the Capstan and wheel, and connected to or disconnected from said capstan, substantially as Pcified.

No. 34,835.—Phineas Jones, of Newark, N. J.—Improvement in Decelling.—Patent dated April 1, 1862.—This device is designed to connect the ends of pieces of wood that abut against each other, avoiding the liability of splitting by lateral strain and dispensing with pins or bolts to hold the dowel in place, being more particularly adapted to connect the ends of felloes of a wheel.

Claim.—First, a dowel B, formed of a metal tube fitted in annular recesses b b in the parts

to be connected, substantially as set forth.

Second, having the interior of the metal dowel B of variable diameter or of double taper σ conical form, in combination with the wedge C, for the purpose of locking the cores ϵ ϵ in the dowel, as described.

No. 34,836.—T. B. Jones, of Paterson, N. J.—Improvement in Tenoning Machines.—Patent dated April 1, 1862.—This invention consists of a bed piece with two uprights supporting a frame which is moved up and down by means of a lever. To this frame statached five cutting instruments; on the face of the frame nearest the bed piece are attached two knives at right angles to the bed piece and separated by a V-shaped opening below and a parallel slot above. At the place where the knives are parallel, two chisels cutting in the direction of the grain of the wood are placed, and also a knife cutting across the grain ω as to trim off the ends of the tenon.

Claim.—The peculiar arrangement of knives and chisels, as shown and described, whe

operated in the manner and for the purpose specified.

No. 34,837.—MORTON JUDD, of New Briton, Conn.—Improved Screw Support for Hay ing Pictures.—Patent dated April 1, 1862.—The claim and engravings explain the nature a this invention.

Claim.—The conical base d, in combination with the cord retaining button s and screws forming a stud for hanging pictures and other articles, as set forth.

No. 24,838.—J. P. KETTELL, of Worcester, Mass.—Improvement in Hat-shell Iron.—Patent dated April 1, 1862.—This iron is so constructed as to iron the brim of a hat without taking out the curl.

Claim.—A hat-shell iron constructed substantially as described.

No. 34,839.—J. J. KIMBALL, of Napierville, Ill.—Improved Water-Wheel.—Patent dated April 1, 1862.—The water strikes against the upper set of buckets, and is conducted into the centre of the wheel, whence by centrifugal force, it is thrown into the lower set of buckets, so as to cause them to revolve, being set in an opposite direction to the upper buckets. The flow of water can be regulated by means of an annular gate. The rods are connected with a head, to which is attached a rod in connexion with the lever; this rod is provided at in lower extremity with a shoulder, so that it is allowed a swivelling motion on the head, by which means the gate can be raised without stopping the wheel.

which means the gate can be raised without stopping the wheel. Claim.—The wheel D, provided with two sets of buckets a b, one set b being below the bottom of the penstock A, and the top of the wheel fitted in the bottom of a box E in the penstock, in combination with the annular gate F, placed in the lower part of the wheel a compassing the buckets b, and connected with the adjusting lever K, by the rods f II b and

lever G, all arranged substantially as and for the purpose set forth.

No. 34,840.—NATHANIEL LLOYD and J. G. DALE, of Church, near Accrington, England-Improvement in Dyeing and Printing with Aniline Colors.—Patent dated April 1, 1862.—The

claim sufficiently explains the nature of this invention.

Claim.—The use of tannin and tartarized or other soluble salt of antimony capable of dilution with water, or a soluble salt of lead, mercury, or chromium, substantially as described, for the purpose of fixing colors derived from aniline or analogous substances upartextile materials or fabrics.

No. 34,841.—WILLIAM MOREHOUSE, of Buffalo, N. Y.—Improvement in Lamps for Burning Coal-Oil.—Patent dated April 1, 1862.—The claim and engraving explain the nature of this invention.

Chim.—The arrangement and combination of the heater plates c c, attached to and near the base of the cone A, with the tube K, cone A, burner B, and globe i, in the manner and for the purpose set forth.

No. 34,842.—WILLIAM MOREHOUSE, of Buffalo, N. Y.—Improved Mode of Attaching Chimneys to Lamps.—Patent dated April 1, 1862.—The upper part of the cone is made with a shoulder, on which the flange on the base of the chimney rests. This flange is inserted under spring hooks, and provided with a recess, which, after one side of the base has been inserted under the hooks, allows it to pass a retainer which is attached to the cone, all presses on the flange of the chimney.

Claim.—A lamp chimney or globe having a part of its base or flanch so reduced in diameter as to permit the chimney or globe to be set upon and secured to or removed from the lamp

cap without causing or requiring a lateral displacement of any of the parts which hold the chimney or the globe to the said cap, substantially as described.

No. 34,843.—Valentine Mott, of Roslyn, N. Y.—Improved Washing Machine.—Patent dated April 1, 1862.—The shaft of the large fluted roller rests on spring bearings, so that it will press equally on any quantity of clothes between it and the inclined tapering rollers. The rotation of the large roller produces a rotation of the tub on the upright shaft forming its axis, so that all the clothes are brought in succession under the rollers.

Claim.—The conical fluted roller k, fitted as specified, in combination with the revolving tab b, containing the conical surface formed by the inclined tapering rollers, the parts being

fitted and acting substantially as and for the purposes specified.

No. 34,844.—PETER NAYLOR, of New York, N. Y.—Improvement in Machines for Compressing Musket Balls.—Patent dated April 1, 1862.—This invention consists in an arrangement of dies for compressing and delivering balls, either globular, elongated, or hollow; said balls being made from short sections of lead or suitable metal cut off from a bar and presented successively to the action of the dies. The delivery punches are for the purpose of throwing out the ball as the dies part. The punches are set in holes in the respective dies, and are actuated by levers connected together at their upper ends by the rod 10. Screws regulate the point to which these punches may recede by the pressure of the lead. A cutter is made to cut off the lead at the proper time by means of a cam and lever, and, at the same time a holding jaw comes up by a spring, or is pressed up by a lever and cam, so as to sustain the section of lead when cut off, and while being carried to the line of the die in the seck. For hollow or Minie balls the die is formed with a conical end to produce the cavity in the ball, and a fixed die is shaped to form the point of the ball with the delivery punch. To provide for groves around the ball, a divided face is made to the die r^2 r^3 , and these pieces slide in grooves crosswise of the die s', wedges projecting from the die r^1 or die-stock being employed for opening and closing these face-pieces while the ball is formed, and delivering it by a reverse movement.

Claim.—First, the delivery punches 6 and 7, adjusted by means of the levers 8 and 9 and set-screws 11 and 12, in combination with the dies r and s, arranged substantially as set

Second, in combination with the said dies r and s provided with the delivery punches, evers, and adjusting screws aforesaid, the holding jaw q and cutter o, arranged as and for the purposes set forth.

Third, the solid die s' and aliding face-pieces r² r³, constructed and acting as and for the

purposes specified.

Fourth, the cylinder as as constructed, having a partial revolving movement around the

de r, in combination with the spiral spring u', as set forth.

Fifth, the arrangement of the dies $s' r' r^2 r^3$ and wedge bars t t, acting in the manner and for the purposes set forth.

No. 34,845.—A. D. REEVES, of Portland, Maine.—Improved Female Supporter.—Patent dated April 1, 1862.—The claim and engraving explain the nature of this invention. Claim.—The sack made in the shape and form and with the buckles and straps described.

No. 34,846.—C. ROBBINS and R. P. BURLINGAME, of Chicago, Ill.—Improvement in Corn-Stellers.—Patent dated April 1, 1862.—The endless belt revolves around two rollers firmly fixed in a frame, one of which is made adjustable, so that the belt can be tightened when desired. Plates of metal, provided with teeth, are placed on the belt. The under side of the yielding plates are also furnished with teeth, and, in connexion with the teeth on the tell, remove the corn from the ears which are supplied to it from a hopper.

Claim.—First, the use of the endless belt C, constructed and operating in the manner and

icr the purpose specified.

Second, the use of the yielding plates I I in combination with the endless belt, as and for the purpose specified.

No. 34,847.—SHERIDAN ROBERTS, of Cleveland, Ohio.—Improvement in Barrel-making Machines.—Patent dated April 1, 1862.—This invention does not admit of a brief descrip-

Claim.—First, the adjustable stock A, so arranged that the axis or pivot of said stock shall be in the rear of the knife and gauge, in combination with the screw R and nut S, so that in adjusting the knife and gauge to the log, the knife-edge can be inclined and depressed at the same time as the knife sash e moves in a right line towards the log, in the manner specified.

Second, the gauge bar F, with its adjusting screws, sliding stock c, the adjustable yoke U, and screw R, in combination with the sash C, as set forth.

Third, the adjustable stock A, pivoted to the sliding sash C, in the rear of the knife D and sarge J, when operating conjointly in the manner and for the purpose specified. Fourth, the curved knife D, knife gauge J, with its curved face and gauge guide N, in

combination with the adjusting stock, as described.

Fifth, the arrangement of the sliding box a, levers e' d', in combination with the springs l and sleeve j, when arranged as and for the purpose specified.

No. 34,848.—DYER ROBINSON, of Reading Centre, N. Y.—Improvement in Hay Rakes.— Patent dated April 1, 1862.—The whole set of rake bars are pivoted on a bar connecing the two posts D on the axle of the machine. The rear ends of the rake bar are the largest and thus keep the teeth down by their weight; when the teeth meet any obstruction, the bar readily rises. By means of a beam pressing on the front ends of the rake bars, and connected by a pulley and cord with a lever in reach of the driver's hand, the front ends of the rake bars can be depressed, which will raise the teeth of the rake from the ground.

Claim.—The arrangement of the lever M, pulley d, cord g, and bar I, with the rake bar

G, posts D D, and thills C C, in the manner and for the purpose shown and described.

No. 34,849.—J. P. ROYCE, of Cuylerville, N. Y.—Improvement in Harvesters.—Patent dated April 1, 1862.—The side-draught frame consists of a metal plate, in form approximating a triangle, but with irregular sides, on and between the corners of which are cast journal and a journal box. On one of the journals is secured the internally toothed driving wheel of the harvester. On another is the intermediate track clearer. The third carries a friction wheel E bearing against the inner face of the driving wheel. On the fourth is arranged a lever standard perforated with a number of adjusting holes, and, curving over the driving wheel, sustains the driver's seat, which is so arranged with the draught frame and cutting wheel, sustains the driver's seat, which is so arranged with the draught frame and cutting apparatus, that the weight of the driver on the different parts of the seat may be employed for swinging the standard on its axis. A hinged brace or stay rod fits in and attaches loosely to the socket-bearing D' by a pivot. The guard D' serves to lay the grain and prevent its twisting between the spokes of the wheel C. The various parts of the shee or divider serve as a grain side runner, as a support for the finger beam and guide for the sickle, as standards to support the platform, and as a support to the grain side wheel.

Claim.—First, the side-draught frame A, provided with the journals a b c d and bearing box s, or their equivalents, constructed and applied substantially as and for the purposes set

forth.

Second, the arrangement of the friction wheel c within the driving wheel and in the rela-

tion to the pinion h, substantially as and for the purpose set forth.

Third, the lever standard F, with driver's seat attached, connected to and arranged in line, or nearly so, with the cutting apparatus, and in rear of the draught frame, substantially as and for the purposes set forth.

Fourth, the arrangement of the hinged brace I, in connexion with the socket bearing D.

of the intermediate grain wheel C, substantially as and for the purposes described. Fifth, the socket-bearing D' and guard D^3 , arranged in combination with the intermediate

grain wheel C, substantially as and for the purpose set forth.

Sixth, the arrangement with the platform angular brace K and shoe or divider N of the

angular hinged braces v w, substantially as and for the purposes described.

Seventh, the construction of the finger guards of U-form, and with pivot holes and tenoms in combination with the mortised fingers, substantially as and for the purpose set forth.

Eighth, the shoe or divider, consisting of the parts N N' N3 N3 N4 N5 N6, made in one

piece, substantially as and for the purposes described. Ninth, providing the shoe N with the perforations No, for the purpose of adjusting the

hinged platform in the manner described.

Tenth, attaching the arms of the reel to the faces of a pulley and disk which revolve on a still shaft, in the manner and for the purpose described.

No. 34,850.—E. M. Scott, of Auburn, N. Y.—Device for Cancelling Notes, Checks, &c.—Patent dated April 1, 1862.—This machine consists of a firm upright plate of iron resting upon a foot, and to the upper part of the plate which bends over the centre of the support is attached a vertical tube, through which passes a rod having a cutter on its lower extremities. the rod being encircled by a spiral spring bearing against a shoulder on the rod and on the tube. The cutter is received by a bolster on a platform attached to the upright. A bracket on the upright contains a vertical tube provided with a rod and cutter, acting by means of a cam and geared crank. This cutter is designed to be used when many notes are to be can celled together.

Claim.—A mechanism for cancelling notes, checks, and documents, constructed substan-

tially as shown and described.

No. 34,851.—Robert Shepard, of Shaker Village, N. H.—Improved Land-Leveller.—Patent dated April 1, 1862.—The object of this machine is to level down ploughed ground by scraping off the crowns of the furrows and depositing the excess in the depressions between them, by means of a series of ribs or flanges secured to the under side of a platform.

Claim.—A land-leveller, for agricultural purposes, composed of a platform and series of

ribs, and operating in the manner and for the purpose set forth.

No. 34,852.—S. T. THOMAS, of Laconia, N. H.—Improvement in Knitting Machines.— Patent dated April 1, 1862.—The two arms of the rocker lever are nearly at right angles with each other, and upon the horizontal part is placed a weight held in such a position by a set screw as will cause the roller to exert the required tension upon the web, when the whole is

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in order to make perfect work. As the web becomes slack, the rocker bar is moved by the action of the weight, a tri-armed lever forming the communication between the movable rocker and those parts that serve to change the velocity of the feeding rollers that gripe and carry the web forward; the velocity being increased until the required tension is attained, sier which it ceases to act until it is again required.

Claim.—The rocker bar, having an adjustable weight by means of which any required strain or tension may be applied to the web, in combination with the weighted tri-armed lever, or its equivalent, acting directly upon a friction cone driver, which turns the feeding rollers at the proper velocity, substantially in the manner described.

No. 34,853.-J. S. WHEAT, of Berkeley Springs, Va.-Improved Apparatus for Tunwag.—Patent dated April 1, 1862.—The induction, exit, communicating and exhaust pipes being each provided with suitable cocks and branch pipes, are so arranged and combined with a series of air-tight tanning vats, that a current of tanning liquid can be forced through all or a portion of the vats impregnating and tanning the hides in the same. A series of raive-leaded with adjustable weights, one on each of the tanning vats, are so arranged and combined with the above-mentioned pipes and their cocks, that, by shifting the weights on the raives and a corresponding opening and closing of the cocks, the current of the liquid passing through the several vats may be changed at pleasure, so as to enter the first and there to the second and out at the third, or enter the second, thence to the third, and out at the first, &c., by which means the hides can be subjected to a weaker or stronger liquid as may be desired.

Claim.—First, the arrangement of the induction pipes E, exit pipes a2 b2 c2, communicating pipe F, and exhaust pipes k l m, with suitable branch pipes and cocks, as described, in combination with a series of vats A B C, constructed and operating substantially in the manner

and for the purpose set forth.

Second, the arrangement of valves g h i, with adjustable weights g' h' i', one on each vat, in combination with induction pipe E, exit pipes a2 b2 c2, communicating pipe F, and exhaust pipes k l m, and suitable branch pipes and cocks, all constructed, arranged, and operating as and for the purpose specified.

No. 34,854.—S. W. Wood, of Cornwall, N. Y.—Improvement in Breach-loading Five-strat.—Patent dated April 1, 1862.—The gate moves on a pivot on the breech-piece of the cur, and is countersunk in order that it may enclose the rear projecting end of the cartridge and barrel. The barrel projects into the rear end, and is bevelled in such a manner that the metallic cartridge can be removed by the fingers. The safety bolt is attached to the lock in such a manner that when the gate is closed, the bolt fits into a hole on its side, but when it is open, the bolt strikes against the side and prevents the hammer in such a manner at to project into the recess in snother bolt is also attached to the hammer in such a manner as to project into the recess in the breech piece, when the hammer is at less than half cock, and so prevents the closing of the gate.

Claim.—Counter sinking the front face of the gate, so as to admit and enclose the rear

Projecting end of the barrel and cartridge, for the purpose specified.

Second, also the safety bolt h, arranged substantially as described, for the purpose of prevening the descent of the hammer while the gate is open; and in combination therewith the specture; or its equivalent, to allow the hammer to descend when the gate is entirely closed. substantially as specified.

Third, also the combined arrangement of the hammer and safety bolt, or bolts, in such a manner as to prevent the closing of the gate, as long as the hammer is less than at half cock. Fourth, also a wedge M, for the purpose of starting the case of the exploded cartridge from .

the barrel or chamber, arranged substantially as described.

No. 34,855.—A. J. Ambler, assignor to Himself, R. N. Ambler, and Warrick Martin, Milwankie, Wis.-Improved Brake for Railroad Cars.-Ratent dated April 1, 1862.-This take is designed to be operated by the movement of the cars, from the running gear thereof, and to be applied by a single person to all the cars of a train. The brakes of each car, being similaneously applied with a uniform pressure, may be graduated as required, by means of timbling rods placed longitudinally underneath each car just above the axles, and canged with draw bars, so as to be rotated and lowered, and by means of gearing connected with a slide and belt shipper used in connexion with two cones, a belt and two cylinders; me cone and cylinder being placed on an axle of each car, and the other cone and cylinder malever connected to a chain attached to the brake bars.

Claim.—First, the tumbling rod V, in connexion with the belt shipper A' and slide Z, for the purpose of operating the belt D' on the cones P R, cylinder S, and cylinder or cone Q, all arranged substantially as and for the purpose set forth.

Second, the employment or use, in connexion with the belt \mathbf{D}' , of the two cones \mathbf{P} R—one, \mathbf{P} , being placed loosely on the lever L, and the other, R, permanently attached to its axle C, for the purpose of actuating the lever L and operating upon the chain I', as and for the purpose

Third, the cylinder S placed loosely on its axle C, and the cylinder or cone Q placed

loosely on the lever L, when used in connexion with the cones P R, belt D', and belt shipper A', and all arranged as and for the purpose set forth.

Fourth, constructing the belt shipper A' with slides i i, having rollers k' k' n' n' attache and acted upon by the springs d'f', and arranged substantially as shown, for the purpose of loosening or relaxing the belt D' on its return or inward movement on the cones P R, as *:

Fifth, the tumbling rod V, slide Z, provided with the double rack formed of the slot a soil teeth v, and fitted on the double-grooved bars N N, as shown, in combination with the best shipper A', cones P R, cylinder S, cylinder or cone Q, and lever L, connected with the chain! by means of the pulleys a a and the chain I', connected with the brake bars E E E E', by means of the rods H II K, chain I, and pulleys J J, all arranged for joint operation, so stantially as and for the purpose specified

Sixth, suspending the tumbling rod V underneath the bed A of the car in adjustable beings i, for the purpose of disengaging, whon desired, the tumbling rod from the hand wheels

No. 34,856.—R. L. BATE, assignor to Himself and W. S. WILCOX, of Adrian, Michigan.— Improvement in Air-heating Furnaces.—Patent dated April 1, 1862.—This invention ocsists of two boxes, one over the other, with communicating flues, which encircle each. Ta cold air is made to pass between the fire boxes and also come in contact with all of the fire Claim.—The fire boxes E F, flues b b c c, cold air reservoir D, distributing pipes s 4, 12 diating surface I, and pipes C, when combined, arranged, and operating in the many substantially as described.

No. 34,857.—G. F. BLAKE, of Medford, Mass., assignor to Himself and Peter Hubbell of Charlestown, Mass.—Improvement in Water Meters.—Patent dated April 1,482.—L. shaft of the registering mechanism works in a sleeve passing through the top of the value chest; to the lower end of the shaft is attached a ratchet wheel which is operated by one of the slide valves; the plungers are made to reciprocate in opposite directions, the port of ∞ cylinder being controlled by the plunger of the opposite one; at each stroke of the plunger the ratchet wheel is rotated a distance equal to that between its teeth; the tappets proved downwards from the ends of the valves, and pass through inclined slots projecting into the cylinders near their ends; the slide valves are operated by the striking of the piston again.

the tappets at the end of each stroke. Claim.—First, operating the registering mechanism of a water meter by means class

ratchet wheel driven directly by the slide valve, substantially as described. Second, the tappets ijkl, in combination with the slides jk, slots L, and plungers 00arranged and operating substantially in the manner set forth.

No. 34,858.—J. O. FARRELL, of Boston, Mass., assignor to Himself and WILLIAM VEATE. of Cambridgeport, Mass.—Improvement in Wagon Springs.—Patent dated April 1, 1832-The front ends of the springs are attached firmly to a bar upon the forward axles, but the me ands, by means of their jointed connexions, are allowed free play on the curved arms

Claim.—The construction of side-spring wagons, with the rear ends of the spring D D jointed to curved arms F, which are also jointed to the hind axle, all as shown and described

No. 34,859.—C. B. HOLDEN, assignor to Himself and S. H. BOWKER; of Wordstr. Mass .- Improvement in Breech-loading Fire-arms .- Patent dated April 1, 1862.- The rest end of the barrel is closed by a pin larger than the barrel and pressing flat against it. This pin can be forced back by inserting the finger in a hole made near the end of the pin, and a the same time the hammer, which moves in a groove on the upper part of the open-civil cavity, can also be forced back and cocked. The pin when forced back allows the insertion of a metallic cartridge in the barrel of the gun. By means of a dog attached to the breezh pin, whose hook catches the flange of the cartridge, the discharged cartridge is removed when the breezh is closed a stacked by the when the breech of the arm is opened; when the breech is closed, a stop operated by the trigger-guard lever presses against its rear end and holds it firm. The trigger, when drawn back, presses against one arm of a bent lever, which causes the other arm of the lever traise the sere F, which retains the hammer by the catch A. The breech-pin is made, when out of position, to slide over the stop F, thus disconnecting the trigger and preventing premature discharge. By means of a finger hole in the hammer, it can be let down slowly so as not to discharge the gun.

Claim.—First, the sliding breech-pin D and sliding hammer E, constructed and arranged in combination with each other, and applied to work either together or separately in an open-sided cavity a a in the frame A, substantially as specified.

Second, the stop F, applied and arranged in connexion with the trigger-guard lever and combination with the sliding breech-pin D, substantially as and for the purpose specified

Third, the trigger H applied in combination with the trigger-guard lever G and the stop F.

substantially as and for the purpose set forth.

Fourth, the sere F' and elbow lever I, applied in combination with each other and with the hammer and trigger, substantially as specified.

No. 34,860.—C. E. L. HOLMES, assignor to Himself and E. D. GRIGGS, of Waterbury, Conn.-Improved Shade for Lamps.-Patent dated April 1, 1862.-The claim and engraving explain the nature of this invention.

Claim.—A paper or cloth shade A, provided with a reflecting surface, produced by a lining

a, of metallic foil or metal-covered paper or cloth, as and for the purpose specified.

No. 34,861.—R. KNOWLTON, assignor to Himself and JEREMIAH LAWS, jr., of Eureka, Ill.—Improved Washing Machine.—Patent dated April 1, 1862.—The cylinder is made with a corrugated surface, and is revolved first in one direction and then in the other, in this way communicating a rocking motion to the concave, which, in connexion with the rubbing of the cylinder, increases the cleansing effects of the machine.

Claim.—First, the combination of the cylinder B with the concave G, the latter being provided with rollers, when said concave is arranged with rockers j, as shown, to admit of the rocking or oscillating of the concave, under the action of cylinder B, as and for the purpose

Second, having the cylinders B, and the rollers de, of the concave, covered respectively with sine and copper, or other suitable metals, and arranged substantially as shown, to produes a galvanic action during the operation of the machine, for the purpose specified.

No. 34,862.—John Morgan, A. T. Jay, Edmund Edwards, and Joseph Tilston, of London, England .- Improvement in Telegraphic Cables .- Patent dated April 1, 1862 .- The spiral coil of wire is surrounded by a covering of rope composed of vegetable fibre, metallic wires or ribbons, in such a manner that the stretch of the rope longitudinally is prevented by the resistance of the internal coiled wire to transverse strain, for the purpose of protecting from injury by such strain, the insulated conducting wire.

Claim.—The arrangement of a spiral coil of wire or metal ribbon A, with a covering of tope B, substantially as and for the purpose specified.

No. 34,863.—R. B. PERKINS, assignor to PARKER & PERKINS, of Meriden, Conn.hyprocenest in the Manufacture of Spoons.—Patent dated April I, 1862.—The end of the handle fits into the recess on the inside of the spoon, and is secured in that position by a rivet and by solder, in order that the handle may be more firmly fastened.

Claim.—Forming the recess in the bowl of the spoon for the reception of the handle by

swaging the same by means of dies, as set forth.

No. 34,864.—JOHN PETRIE, jr., of Rochdale, England, assignor to JOHN COOKE, of Bradford, England.—Improvement in Machines for Drying Wool, &c.—Patent dated April 1, 1962.—A frame is constructed of any desired length, with its bottom and ends made of iron or wood, and having bars or supports arranged like the rafters of a double inclined roof, extending from a beam on the top of the frame to horizontal beams constituting the sides; on these bars, on each side, a long frame of wire gauze rests, hinged at its lower end at each honzontal side beam, so as to form a flap, on which the wool to be dried is placed. The box is provided at one end with a rotating fan which forces air into its interior. The box is traversed longitudinally by a series of steam pipes arranged underneath the flaps in such a manner that the air which is forced in by the fan, must come in contact with the heated pipes

before it passes out through the gauze.

Claim.—The construction and arrangement of the case, air-chamber fan, and inclined pertofated or women wire flaps, to receive the wool to be dried, said flaps being so arranged as to expose the wool on an extended surface to the immediately surrounding air, to facilitate its placement, drying and removal, the whole being constructed, arranged, and combined in

the manner and for the purpose set forth.

No. 34,865.—M. D. WHIPPLE, of Cambridge, Mass., assignor to the WHIPPLE FILE-MANUFACTURING COMPANY, of Ballardvale, Mass.—Improvement in Machines for Cutting File.—Patent dated April 1, 1862.—Upon the main frame is secured a standard to which is proted an arm which carries a pulley furnished with a set of pins; another arm is pivoted to the arm K, whose inner end intercepts the path of the pins on the pulley, and to the outer end is secured a disk cutter; as the pulley revolves, the pins cause a rapid vibration of the cutter, which strikes on the edge of the file blank as it is fed along.

Claim.—As a new article of manufacture, a round or curved surface file, the teeth of which

are cut in rows, winding spirally, substantially as specified.

No. 34,966.—M. D. Whipple, of Cambridge, Mass., assignor to the Whipple File-Mandpacturing Company, of Ballardvale, Mass.—Improvement in Files.—Patent dated April 1, 1862.—The claim and engraving explain the nature of this invention.

Claim.—The described machine for cutting the edges of file blanks, consisting essentially of the arm K, with its guide bar r, the vibrating arm s, with its cutter, the feed rolls G, and suitable gearing and mechanism for operating the parts, substantially in the manner specified.

No. 34,867.—A. B. COOLEY, of Philadelphia, Pa.—Improved Floating Battery.—Panat dated April 1, 1862.—The vessel is covered with a bomb-proof roof, having bomb-proof grating to allow ventilation, and enabling those inside to see where to direct the guns; the bars are designed to drop down to the bottom of the water; they are raised by a ratchet bar and wheel held by a pawl; on loosening the pawl the bars fall by their own weight.

Claim.—First, the vessel, with its central opening, in combination with the tube F, and anchoring bars K, for rendering the said tube stationary, while the vessel is revolved.

Second, the tube E, forming a part of the vessel, in combination with the tube F, and its

flange a, the said flange resting on the pinions H, or their equivalents, of the tube E, as specified.

Third, the platform T, secured to the tube F, and arranged substantially as and for the

purpose set forth.

No. 34,868.—G. L. Bailley, of Portland, Maine.—Improvement in Buckles.—Patent dated April 8, 1862.—The long tongue passes through a hole on one end of the strap, the other end being attached to the opposite side of the bow. By reversing the position of the buckle, the two ends of the strap are drawn past each other, and the strap is tightened; the long

tongue being secured by a loop or ring attached to the strap.

Claim.—The described buckle having one or more tongues rigidly fixed to or made a part of the bow of the same, when made and operating in the manner and for the purpose sub-

stantially as set forth.

Also, the use of the described buckle, in combination with the strap o, and the loop B, or its equivalent, substantially as and for the purpose set forth.

No. 34,869.—G. L. Bailey, of Portland, Maine.—Improved Ice Cteeper.—Patent dated April 8, 1862.—From that part of the creeper which rests on the heel, and on which are the spurs or projections, a plate of metal extends under the hollow and towards the ball of the foot. In the plate are openings through which pass a strap, by which the creeper is attached to the foot. This plate is also provided with shoulders which beer against the heel, and to gether with a spur on the inner side of the plate retain the creeper firmly on the boot or shoe. Claim.—In a creeper the extended part containing the openings E E, in combination with he spur D, and shoulders I I, substantially as and for the purpose set forth and described

No. 34,870.—TIMOTHY BAILEY, of Ballston Spa, N. Y.—Improved Washing Machine-Patent dated April 8, 1862.—Swinging loosely on a rod extending from two uprights on each side of the box are pendants, to the lower extremities of which are attached beaten. At about the middle of each pendant is pivoted a horizontal bar, notched at its outer and Behind the beaters is placed a shaft having upon it three cranks, which on rotating the shaft, are made to catch in the notches on the ends of the arms and draw them back. On further rotation of the shaft, the arms are released, and the beaters, owing to their weight, falling forward, strike against the clothes, and thus, in connexion with the suds contained in the box, effectually cleanse them. When the suds are removed, the beaters may be used for

wringing the clothes.

Claim.—The combination of the self-locking and self-unlocking arms E and cranks G with the pendants C and beaters D, in the manner and for the purpose shown and described

No. 34,871.—W. D. BARTLETT, of Amesbury, Mass.—Improvement in Cooking Stoves.— Patent dated April 8, 1862.—This invention consists in placing a fire pot within the oven and having the latter surrounded by flues communicating with the fire pot and smoke-pipe; the base on which the latter is fitted being provided with a check valve constructed of a perforated plate covered by a perforated slide, and all arranged so as to present to the over

a considerable radiating surface.

Claim.—First, the placing of the fire pot C, and flues F H, within the oven D, arranged relatively with each other, as shown, and with the flues E G I at the top, bottom, and back

of the oven, substantially as and for the purpose set forth.

Second, the chamber J, communicating with the flue I and stove-pipe, when said chamber is provided with a partition j, and valve or door I, arranged as and for the purpose sforth.

No. 34,872.—IRA BISBEE, of East Pharsalia, N. Y., and ARZA BISBEE, of Polk Township, Mo.—Improvement in Hay Press.—Patent dated April 8, 1862.—The middle lever of the three which are used, is provided at its centre with a pin which moves in a longitudinal slot in a bar between the transverse timbers of the press, and the two other levers are each connected by toggle joints, one to the follower and one to the stationary block on the trans-By this arrangement a greater extent of movement is given the follower, and at verse bar. the same time, the actuating lever being made a portion of the leverage system, the power of the press is increased.

Claim.—Operating the follower G of said apparatus by means of the system of three-jointed levers C D E, and a suitable actuating lever, when the said levers are made to act harmoniously with each other by means of the fulcrum pin a, which projects from the central lever D, into a guiding slot or groove in a portion of the frame of said apparatus, sub-

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stantially as set forth.

No. 34,873.—J. BRAINERD and W. H. BURRIDGE, of Cleveland, Ohio.—Improved Process f Extracting the Strength of Bark for Tanning and other purposes.—Patent dated April 8, 1822.—The nature of this invention consists in extracting the famin from bank or other similar substances by displacement, every portion of the bark being subjected to the action of heated water or heated spent tan liquor before said liquor becomes saturated with the dissolved tannin, thus insuring the complete extraction of the tannin from the bark, and also obtaining a completely saturated solution. The distinguishing feature of the apparatus for accomplishing this, is the means for the introduction of the bark at the bottom of an upright cylinder while the water. enters at the top, thus displacing the bark, which is discharged at the top.

Claim.—Obtaining the extractive properties of bank by the process described.

No. 34,874.—J. N. Brown, of New York, N. Y.—Improvement in Boys' Sleds.—Patent dated April 8, 1862.—This invention consists in the arrangement of a pivoted runner in front and midway between the ordinary runners of a boy's sled in combination with a foot lever or tiller and guiding cord, in such a manner that the said runner can be turned in either direction

by the hands or feet, and the sled guided thereby.

Claim.—As a new article of manufacture, a boy's sled A, having a pivoted runner C in front provided with a foot lever or tiller d, and guiding cord s, as and for the purposes shown

No. 34,875.—ROBERT BRYSON, of Schenectedy, N. Y .- Improvement in Rakes for Herexter.—Patent dated April 8, 1862.—This invention consists in the combination of devices by which a rake is made to traverse the platform of a harvesting machine, and at the same time the teeth are swung up from and brought in contact with the platform alternately. cask on the axle of the driving wheels by means of the connecting rod and vibrating lever, actuates the vertical rock shaft to which the rake head is attached, so that the rake head is caused to traverse the platform. To the rake head is attached a block provided with projections and recesses. The inclines upon the rear guard board, as the rake head traverses, press up one end of the weighted lever and free its booked end from the recesses in the block, and thus allow the said block, when it comes in contact with the lever hooks, to be tilted to the extent of a quarter revolution, so as to turn the rake teeth alternately up and down.

Claim.—First, the combination of the vertical shaft E, angular guide bar I, rake head I, sotted arm F, connecting rod H, vibrating lever G, and crank B, in the manner and for the

purpose described.

Second, the combination of the many-sided block K, rake head J, spring stop L, incline lugs N M', weighted lever hook M, and weighted tripping hook levers O O, the whole constructed, arranged, and operating in the manner described.

No. 34,876.—TISDALE CARPENTER, of Providence, R. I.—Improved Method of Oiling Sides for Steam Engines.—Patent dated April 8, 1862.—The object of this invention is to render self-lubricating the gibs and slides of steam engines or other machines having crossheads or their equivalents working in straight guides, and allow the oil employed in such lubrication to be used over and over again, as long as may be desirable, instead of being thrown off from the slide and wasted. It consists in the combination of a hollow gib or shoe and oil reservoir at the bottom or at each or either end of the slide, the said gib or shoe being constructed with suitable openings for the reception of oil from the reservoir and for the delivery of said oil upon the surface of the slide.

Claim.—First, the combination of the oil reservoir at the bottom or either end of the slide

and the hollow gib or shoe, substantially as and for the purpose specified.

Second, furnishing the oil reservoir with a cap piece or shield d, or its equivalent, formed to direct the oil to the induction opening b b of the hollow gib or shoe, substantially as specified.

No. 34,877.—TISDALE CARPENTER, of Providence, R. I.—Improvement in Governor Connections for Steam Engines.—Patent dated April 8, 1862.—This invention relates to the application of the governor to lengthen and shorten the arms of rocking levers by which the induction or cut-off valves are worked, and thereby cause the said levers to be capable of receiving from the cam or other device employed to impart motion to it from the main shaft of the engine, a motion which is variable, in such a manner as to enable the valve to be closed at an earlier or later period in the stroke of the piston of the engine as may be required to effect its proper regulation. It consists of a peculiar mode of effecting the connexion between the regulator and the stuffing pistons of the rocking levers, which provide for the lengthening and shortening of their arms, the object being to prevent any unsteadiness of the motion of

the governor being produced in the shifting of the aforesaid portions of the lever.

Claim.—Combining the governor rod F. or its equivalent, with the toothed sector E, for operating the sliding rod or shifting portion D of the rocking lever of the valve gear by means of a pin I, attached to the said rod F, or equivalent, a slot or slots c, in the sector and statement of the said rod F, or equivalent, a slot or slots c, in the sector and statement of the said rod F, or equivalent, a slot or slots c, in the sector and statement of the said rod F, or equivalent, a slot or slots c, in the sector and statement of the said rod F, or equivalent, a slot or slots c, in the sector and statement of the said rod F, or equivalent, a slot or slots c, in the sector and statement of the said rod F, or equivalent, a slot or slots c, in the sector and said rod F, or equivalent, a slot or slots c, in the sector and said rod F, or equivalent, a slot or slots c, in the sector and said rod F, or equivalent, a slot or slots c, in the sector and said rod F, or equivalent, a slot or slots c, in the sector and said rod F, or equivalent, a slot or slots c, in the sector and said rod F, or equivalent, a slot or slots c, in the sector and said rod F, or equivalent c, a slot or slots c, in the sector and slots of the said rod F, or equivalent c, a slot or slots c, in the sector and slots of the said rod F, or equivalent c, a slot or slots c, and c, a stationary grooves or guides d d, the whole applied and operating substantially as set forth.

No. 34,878.—TISDALE CARPENTER, of Providence, R. I.—Improvement in Piston Packing.—Patent dated April 8, 1862.—The ends of the expanding rings are bent into hooks which engage with hooks upon the packing ring. An adjusting screw is arranged radially to the centre of the piston, one end passing into a tappet hole in the hub, the other resting against the packing. This screw serves the purpose of preventing the packing ring from turning and of centring the said ring to the piston head. The nut upon the screw serves to adjust the expansion of the packing ring, so that, by securing the nut towards the hub of the piston, it is made to press the spring against the lugs of the piston head, and the hooked ends of the said spring are caused to act upon the hooks of the packing ring so as to expand it.

Claim.—The arrangement and combination of the circular-expanding spring C, adjusting

screw E, and nut h, applied in connexion with the packing ring and piston head, to operate substantially as and for the purposes specified.

No. 34,879.—W. H. Chaffee, of Flint, Mich.—Improvement in Instruments for Measuring Distances.—Patent dated April 8, 1862.—Upon a flat board fixed in a horizontal plane, and capable of adjustment to any position in this plane, is fixed a telescope fitted with cross wires, and near it is attached to the board by a pivot, another telescope, moving in the same horizontal plane with the first. The pivot is situated at the point formed by the intersection of the plane with the contract between the point formed by the intersection. of the axes of the two telescopes, if prolonged beyond the eyeglasses. Attached at right angles to the movable telescope, and in the same horizontal plane, is a reflecting tube, and at the angle formed by the two is situated a mirror, whose surface is at an angle of 45° to the axes of the tubes. In order to calculate the distances of any object from the point of observation, the telescopes are adjusted until the object is equally visible through both, when an index upon the movable telescope indicates the distance of the object upon a scale constructed according to the mathematical rule which enables the length of the hypothenuse of a right angle triangle to be ascertained, when the length of the base and the angle formed

with it by the hypothenuse are known.

*Claim.—The combination of the two telescopes B C, the angular reflecting tube E, the index c, and the scale or scales d e, the whole combined to operate substantially as and for

the purpose specified.

No. 34,880.—P. D. CUMMINGS, of Portland, Me.—Kerosene Oil Burner.—Patent dated April 8, 1862.—A sheath C is attached to the base of the burner, and in it a vertical rod attached to the burner cone plays up and down, a projection on the rod fitting in a vertical slot in the sheath. A portion of the sheath is cut away at its top, forming an inclined place and shoulder, against which the projection on the rod bears when the cone is turned away from the burner. When it is desired to return the cone to place it over the burner, a slight motion is given to the lamp sufficient to cause the projection to travel up the inclined plane on the sheath, when the cone will be returned to its seat over the burner by its own gravity.

Claim.—First, so constructing a lamp for burning kerosene oil that its cone may be removed from over the top of the wick to a position at the side of the lamp, and thereafter be automatically returned to its position over the wick, substantially in the manner set forth. Second, the sheath C, in combination with the rod f, substantially in the manner and for

the purpose specified.

Third, removing the cone from its seat upon the lamp, first by a vertical movement and then by a lateral movement of the cone, for the purpose specified.

No. 34,881.—J. C. DAVIS, assignor to EDWARD HALL, of the county of Alameda, Cal. Improved Arastras.—Patent dated April 8, 1862.—The circumferential band on the inside surface of the arastra is connected with the positive pole of the battery, and the metallic radial gutters are attached to the encircling wire connected to the negative pole. The arastras being filled with the pulverized ore, water, and mercury, the electric current is caused to pass through the mass, and thus facilitates the separation of the metals from their chemical combinations and furthers their amalgamation with the mercury.

Claim.—In the construction of arastras the combination of a circumferential metallic band

c and metallic radial gutters G with wires D P and galvanic battery, as set forth.

No. 34,882.—SIMEON C. DAVIS, of Medina, N. Y.—Improved Method of Grazing Sheep and other Animals.—Patent dated April 8, 1862.—The claim and engraving explain the nature of this invention.

Claim.—The employment of movable racks or frames, provided with apertures or spaces in their sides, in such a manner as to allow the animals to reach without escaping through them, and thereby always to feed upon untrodden grass outside of the racks, substantially as and for the purposes specified.

No. 34,883.—W. H. DOANE, of Chicago, Ill.—Improvement in Sawing Machines.—Patent dated April 8, 1862.—The novelty of this invention consists in the combination of parts as designated in the claim, the object being to adapt an arrangement of feed rollers, patented to W. H. Doane and C. Mason July 27, 1858, to a reciprocating saw. The separate parts are disclaimed.

Claim.—The combination of the reciprocating saw R S, arm W, lever X, pawl Y, gearing Z A' B' J I, feed rollers F L, arms M.N, spring P, and gearing G H H', all constructed, arranged, and operating in the manner and for the purposes shown and explained.

No. 34,634.—WILLIAM FULTON, of Elizabeth City, N. J.—Improved Fastener for Lamp Chimneys.—Patent dated April 8, 1862.—The object of this invention is to adapt a fastening which will hold the chimney or shade firmly to its place without breaking it by the pressure, and at the same time prevent the air from passing in under it, so as to cause the flame to smoke. This is effected by using an ordinary spiral or other spring. That portion of the spring bolt which presses against the chimney, instead of terminating in the ordinary way, is formed into two curved arms, one on either side of the bolt, extending partially or half

way around the neck of the chimney, and having a downward pressure upon the flange of the chimney and a central pressure on the neck, thereby keeping it stationary.

*Claim.—The curved clasp or arms C, as shown in Fig. 1 and Fig. 4, when attached to and formed of a belt or pin, as shown at B, in Fig. 1 and Fig. 4, and made adjustable, in relation to the chimney, through the instrumentality of a spring, screw, or lever, substantially

in the manner and for the purpose set forth.

No. 34,885.—K. H. Elliott, of Eden, Vt.—Improved Clothes-Wringing Machine.—Patent dated April 8, 1862.—The loose collar to which the bearings of the upper pressure-roller is attached, plays up and down upon vertical screw rods. The semi-elliptical springs J, having one end attached to the bearing and the other end pressing against a thumb nut upon the extenity of the vertical rod, regulate the pressure of the upper roller, and by turning the nut the tension of the spring can be increased or diminished, so as to adapt the pressure for clothes of different degrees of texture. The screws of the vertical rod pass through the nuts to which the bearings of the lower roller are attached. The journals of the upper roller rest in elliptical bearings, thus affording either end a certain degree of vertical play. The invention also consists in a means for attaching the machine to the sides of the tub. The pendants on the inside of the vessel have a swivel play, so that the securing cam can be brought firmly against the side of the tub, whatever may be the degree of curvature of its

Claim.—First, the combination of the screw rods E E, springs J J, loose collars H' H', and nuts D D, arranged in relation with the bearings I a* of the roller shafts B B', to operate

as and for the purpose set forth.

Second, the pendant fixed bars F, in combination with the swivel bars G, with cams H at their lower ends, the above bars being attached to the arms C C of the machine, and arranged substantially as and for the purpose specified.

No. 34,886.—R. W. GEORGE, of Richmond, Me.—Improved Washing Machine.—Patent lated April 8, 1862.—A rotary dasher, provided with an expanding or adjustable door, is arranged in such a manner that it will serve as a clamp to hold the portion of clothes previously cleansed within the dasher, while the uncleansed portion may project out therefrom and be subjected to a further rubbing and friction between the wheel and slatted apron or concave. In connexion with the above are cords attached to the concave of the machine to serve as a support for the clothes during the second or last operation to which they are subjected.

Claim.—First, the employment or use, in connexion with the dasher C, of a door E, so stranged as to serve as a clamp to secure the cleansed portion of the clothes in the dasher and admit of the uncleansed part to project therefrom, for the purpose of subjecting them to

additional rubbing operation, substantially as set forth.

Second, the peculiar construction of the reversible door E, as shown and described, to wit, having one side of convex form, corresponding to the curvature of the dasher, and the other side of flat form, and composed of two longitudinal parts F G, with a slide H between them for the purpose of expanding said parts, so that they may form a clamp, for the purpose set isth.

Third, the cords l l attached to the concave B, as shown, when used in connexion with the door E and dasher C, for the purpose specified.

No. 34,887.—FIRMAN GOODWIN, of Astoria, N. Y.—Improvement in Fish Traps.—Patent dated April 8, 1862.—The nature of this invention will be understood from the claim and

Claim.—The combination of vertically adjusted seines B, outer slatted anchor box A, inner adjustable slatted fish receptacle C, and taper decoy seines D D, substantially as and or he purpose set forth.

No. 34,888.—RICHARD HOSKIN, of Dutch Flat, Cal.—Improvement in Hose Coupling.-Patent dated April 8, 1862.—The ends of the hose to be coupled are stretched over a metallic thimble having enlargements formed at each end, upon which the hose is secured by a band or clasp, one and of which latter is provided with a forked head having a transverse slot while the other end is formed into a loop, which is secured in the slot by means of a wedge Claim.—A hose coupling consisting of the metal band or clasp C, loop c, and key d, when arranged and operating in the manner described.

No. 34,889.—Augustus Jenny, of New York, N. Y.—Improved Washing Machine.—Patent dated April 8, 1862.—This invention consists in the arrangement of a rotary reciprocating

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pounder to which the clothes are attached between two wash-boards, parallel to each other and hung on springs which fit in the grooves between a series of cleats on the sides of the tub, thus permitting the wash-boards to be adjusted at different distances from the pounder. One of the wash-boards is made in two parts, hinged together and connected by a cord passing through rollers on the sides of the box to the wash-board, so that the two parts can be brought together at their tops by pulling the cord. One end of the bent holder is pivoted to one side of the pounder; the other end is retained by a revolving catch to the opposite side, thus allowing the clothes to be readily removed. The pounder is hinged at about its centre. so that its lower end can be turned up and placed upon the hook or the bent arm of the crank, which arm may also be made to act as a wringer.

Claim.—First, the arrangement of the rotary reciprocating pounder G, in combination with the adjustable spring wash-boards D E, cleats dd, and line f, constructed and operating

substantially in the manner and for the purpose shown and described.

Second, the holder H, in combination with the revolving catch s, spring s, and pounder

G, substantially as specified.

Third, the arrangement of the arm or wringer τ , in combination with the crank g and pounder G, as and for the purpose set forth.

No. 34,890.—HENRY KNIGHT, of Jersey City, N. J.—Improvement in Moulds for Cement Pipes.—Patent dated April 8, 1862.—The object of this invention is to produce a compression of the cement within the lower end of the vertical flask after it has been filled with cement, and thereby form a solid collar with a continuous right-angled socket within it. This is effected by means of the sliding collar and having a flange extending from the base plate. When the flask is first filled with cement, the sliding collar is dropped down from the base plate; but before the cement has set, it is forced up against the base plate, thus compressing the cement and forming a solid collar. The tubular portion of the detachable collar is inserted into the top of the tubular core. When thus adjusted it is revolved on the core and made to sweep off the surplus cement and smooth and finish the end of the cement pipe.

Claim.—First, the combination with a vertical flask of the lower sliding collar F and a

central core, substantially as and for the purpose set forth.

Second, the combination of the tubular core, tubular detachable collar C, and a vertical flask, in the manner and for the purpose described.

No. 34,891.—WILLIAM LEVIN, of St. Louis, Mo.—Improvement in Apparatus for Etomomising Fuel.—Patent dated April 8, 1862.—This apparatus is composed of an air chamber formed like an inverted funnel and placed immediately under the fire chamber; it is provided with perforations in its sides for the admission of air. The lower part of the fuel basket projects down into the air chamber in such a manner as to admit the air to the bottom and sides of the fuel. Small holes in the sides of the fuel chamber serve to admit air directly over the fuel. Over the fire chamber is a flue having perforations at its lower part for the admission of air, so as to allow it to mingle with, and assist in the consumption of the

Claim.—The peculiarly arranged combination of air chamber B, the fire chamber A, the flue C, the peculiar form of the grate or fuel basket b b b, when used in connexion with the holes ccccc, at c and at g, constructed in the exact manner described, and when arranged

and operated in the peculiar manner and for the object specified.

No. 34,892.—M. K. LEWIS, of Iowa City, Iowa.—Improvement in Carriage Brakes.—Patent dated April 8, 1862.—The brake bar is connected to the pole by means of a rod and a lever in such a manner that when the team holds back the pole, the brakes are applied to the wheels, but are released when the team pulls forward. When the brakes are brought against the wheels they are caused to rotate by friction, and thus wind the chains which bring the brakes into close contact with the wheels. The brake is thus rendered self-acting, and the harder the pressure of the wheels the greater the power exerted by the chains to draw the brakes.

Claim.—Making the brake blocks which act on the carriage wheels to turn or rotate on the brake bar and wind chains which are fastened to the brake blocks and to some part of the carriage, so as to wind the chains around the hub of the brake block and draw the brake

blocks against the wheels, as described.

Also, in combination with the above-claimed devices, connecting the breech bar to the pole, substantially as described, so as to operate or apply and release the brake by the team.

No. 34,893.—JOSIAH LONG, of Leavenworth, Ind.—Improved Cutter Attachment to Ploughs.—Patent dated April 8, 1862.—This invention consists of a curved cutter attached to the front part of the mould board, and attached at its extremity to the beam by a staple. A brace extends back from the cutter, and is attached to the upright shaft of the plough, so as to form a substantial support for the whole.

Claim.—The cutter, constructed as described, attached to the plough, as and for the pur-

poses set forth.



NW 34,894.—J. D. LYNDE, of Philadelphia, Pa.—Improved Bottle for Erated Liquids.—Patent dated April 8, 1862.—To a socket which is firmly attached by cement to the top of the bottle, is screwed the tube D, and between a shoulder on the socket and the lower portion is a disk provided with a perforation through which the hollow valve stem passes. This valve has upon it a recess, and at its bottom a projection which bears against the lower side of the disk so as to open the valve. The bottle is opened by pressing down the valve stem. The India-rubber spring which encircles it, retains it firmly against the lower face of the valve when the pressure is removed.

Claim.—The valve, as described, and its combination with the rubber spring L, the hollow valve stem H, the tube B, and the hollow mouth-piece A, constructed substantially as

described and for the purposes set forth.

No. 34,895.—G. A. MEACHMAN, of New York, N. Y.—Improvement in Button-Fasteners. Patent dated April 8, 1862.—This invention consists in attaching the flexible or cloth portion of the eye of the button to the rigid portion of the same by introducing a disk or circular plate within the cloth portion and the upper part previous to the bending of the edges of the latter, by which means the parts are securely united.

Claim.—The attachment of the flexible material D to the rigid portion of the eye by holding it compressed across the edge of a part M, or its equivalent, substantially in the manner

set forth.

No. 34,896.—DAVID MAYDOLE, of Norwich, N. Y .-- Improvement in Skate-Fastening. Patent dated April 8, 1862.—The heel-strap or counter which extends up at the back of the state, is firmly clamped between two plates, placed one over the other, and connected together by screws, the lower end of the counter being placed between the plates. Upon the upper part of the rear post of the runner, is cut a screw thread to receive a nut, and upon the same is also a plate having a projection on its under side, and a flanch around its edges, which serve as a protection to the lower part of the heel-strap, and as a socket to receive the heel of the boot or shoe.

Claim.—First, securing the heel-strap or counter K to the back part of the skate by means

of the two plates H J, placed one over the other, and connected together by a screw or screws with the lower end of the strap or counter, placed between the plates, as set forth. Second, the two plates H J, the former being provided with a flanch f, in combination with * screw a^* on the upper part of the post B', and the nut I, placed on the screw and fitting in the hole g of plate J, all being arranged as shown, to admit of the heel-strap or counter being attached to the skate and the plates H J to the post B' thereof, as set forth.

No. 34,897.—G. A. MEACHAM, of New York, N. Y.—Improvement in Buttons.—Patent dated April 8, 1862.—This invention consists of a headed stud or fastening, so constructed so to be capable of being fixed to the garment independently of the button proper, and allow of the button being subsequently attached thereto, when used in combination with a solidfaced button-head, adapted to be so attached that the fastening may be firmly fixed to the garment, and the button loosely attached to and capable of turning thereon, and also allow of different buttons being attached to the same fastening if desired. The invention also consists in the employment of a movable key or locking piece within the button, in connerion with and so arranged relatively to an opening in the lock of the button, that the head of the stud or shank may be placed in the said opening after the stud has been fixed to the gament and be securely fastened therein, so that while the button is at liberty to rotate upon bestud, and to be locked to a limited extent thereon, it cannot be removed without unlocking

or disengaging it.

Claim.—First, a stud or fastening D d, so constructed as to be capable of being securely stached to the garment independently of the button, and admit of the button being subsequently attached thereto, in combination with a button-head, and having a solid or continuous face, and adapted to be so attached in such manner that it may swivel around freely thereon,

substantially as and for the purpose set forth.

Second, a button, having the key or locking piece C rotating or otherwise movable within it and so arranged relatively to the opening M m in the back of the button and to the head d of the stud D that after the latter has been fixed to the garment the button may be securely fastened thereto, with liberty to move thereon, substantially as set forth.

No. 34,898.—Daniel Merrill, of Worcester, Mass.—Improvement in Ventilators for Resirved Cars.—Patent dated April 8, 1862.—Air is admitted into the air chamber by means of a long rectangular box on the top of the car. This box is provided with valves suspended by pirots in such a manner that one of them will open by the force of a current of air caused by the motion of the car, and the other will remain closed. The air passes through screens which free it from dust, and are so arranged that when the meshes become clogged the force of the air will cause the screen to vibrate and discharge the clogging material. The air asing into the air chamber is caused in warm weather, to pass over moistened cloths supplied with water, by which it is cooled, and in the winter is made to pass near a stove, so as to be heated. Afterwards it passes over a lower water vessel, by which it is freed from dust,

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and then through flues into the air-distributer, extending the length of the car between the seats, and is discharged through a register in the top of the cars. In the winter season the flues are so closed by means of dampers that some of the air descends into the air passages in the floor of the car, so as to warm the feet of the passengers before it passes out. When too great a quantity of air enters the air-supply chamber, the weighted valves open and discharge the excess. The pure air entering the top of the car will force the impure air out through a register opening in the bottom of the car, whose motion creates a downward draught.

Claim.—First, the specified combination and arrangement of devices by which the car is supplied with currents of pure air, the same consisting of the tube or duct K provided with screens M M and valves L L', as set forth, the induction pipe I, the air chamber D, furnished with dust separators and coolers, as described, the eduction flue I' and the distribution pipe Q having valves applied to it, as specified, the whole operating together substantially as set

forth.

Second, the described and peculiar arrangement or application of the screens M M to the air-supply box K, whereby the same not only separate the cinders, &c., from the air, but are rendered self-cleaning, as set forth.

Third, the construction and arrangement of devices by which the supply of air to the air chamber D is regulated, the same consisting of the weighted valves o4 o4, and operating in

the manner as set forth.

Fourth, the combination and arrangement of the two water boxes C E and disseminator F with the air-purifier and cooler, the whole being disposed within the air chamber D, and so as to operate as set forth.

Fifth, the described arrangement of the distribution chamber Q, provided with valves, as set forth, whereby the purified air is equally distributed throughout the car, the same being

substantially as specified.

Sixth, the arrangement of the registers for the escape of foul air, viz: in the passage way between the seats, so that such air may pass through a pipe directly under the car into the atmosphere, or under the upper floor, and warm the same, prior to escaping out of the discharge passage, the same being substantially as set forth.

No. 34,899.—A. H. Newton, of Worcester, Mass.—Improved Cruet or Decanter.—Patent dated April 8, 1862.—This invention consists in forming the guide of the same material as the cruet, and having its inside hollowed out so as to receive the ball when the cruet is tilted. Openings made in the guide opposite the spouts allow free egress to the liquor contained in the cruet.

Claim.—As an improved article of manufacture, a cruet or other portable vessel for holding liquids, provided with a ball, valve, or stopper C, when said valve or stopper is used with a guard or guide B, which is formed of the same material as the cruet, and combined therewith in one piece, substantially as set forth.

No. 34,900.—Orrin Newton, of Pittsburg, Pa.—Improved Holder for Lamp Chimneys.—Patent dated April 8, 1862.—The claim and engraving explain the nature of this invention.

Patent dated April 8, 1862.—The claim and engraving explain the nature of this invention.

Claim.—The use of a chimney-holder, consisting of a circular piece of metal or other suitable material, separate and detached from the burner frame, and surrounding the base of the chimney, and having projecting arms or handles, constructed and operating substantially as described, for the double purpose of holding the chimney in place in the burner frame, and removing it therefrom, without the necessity of handling the chimney in so doing.

No. 34,901.—R. B. Norman, of Sacramento, Cal.—Improved Furnacs for Roasting Ores.—Patent dated April 8, 1862.—The transverse and longitudinal flues situated under the sole of the furnace conduct the products of combustion from the fire-box E to a flue at the rear part of the chamber, and from thence the flame passes to the top of the chamber and out through the opening communicating with the chimney. The ore spread upon the furnace is thus heated to such a degree as to volatilize all the sulphur contained in it, which is carried to the chimney, and may be collected in the chamber at the base of the chimney. The bridge-plate at the rear of the sole of the chamber, prevents the flame from impinging upon the ore, though it aids in heating it, and this, in connexion with the height of the chamber, prevents the combustion of only a small portion of the sulphur, insufficient to produce any injurious effects. When all the ore is desulphurized, it is readily oxidized and agglutinated by increasing the heat and admitting air.

Claim.—So constructing a desulphurizing furnace for roasting the ores of precious metals as that the heat shall be applied first beneath the sole of the furnace, and afterward on the surface of the ore, when the same is combined with a chamber, arranged in the base of the chimney, for the reception of such volatilized particles of ore, &c., as may be driven off by heat or carried over by the draught, substantially as described.

No. 34,902.—W. R. Pomerov, of Millersburg, Ohio.—Improvement in Corn-Planters.—Patent dated April 8, 1862.—This invention consists in an arrangement of devices for throwing the seed-dropping apparatus out of gear when it is desired to transport the machine to or from its work.

Claim.—The recess g, bar f, pivot j, and spring h, in combination with the wheel E and rebate C, when arranged and operating in the manner and for the purpose described.

No. 34,903.—PINCENEY FROST, of Springfield, Vt. - Improvement in South Snaths .- Patent dated April 8, 1862.—This invention consists in an arrangement of devices by which a scythe can be attached to a snath in such a manner as to render it capable of being adjusted in vanous positions to suit the operator, and as circumstances may require, such, for instance, as baying its end secured more or less inward toward the outer end of the snath, and also more or less upward in a vertical direction, as well as having its edge throughout the entire length adjusted more or less upward, so that it will be more or less inclined in its transverse section.

Claim.—The arrangement of the slotted adjustable wedge G, screw D, and movable plate E, having perforations of the peculiar form shown, with the socket B, tange H, bolt F, and

but A, as shown and described.

No. 34,904.—Timothy Raymond, of Franklinville, N. Y.—Improvement in Lamps.-Patent dated April 8, 1862.—One side of the wick tube is movable, and its pressure upon the wick contained in the tube is regulated by the screw and spring, so as to regulate the flow of oil; a stationary wick is attached to the bottom of the tube, and is in contact with the other

wick, so that, whether the latter be too short for the oil or not, the flow is not interrupted. Claim.—The arrangement of the wick tube C, with the movable side a, spring c, and saw d, with the wicks E and F, connected and used as represented, whereby the wick E

s regulated and supplied with oil, substantially as set forth.

No. 34,905.—Caleb Sanborn, of South Berwick, Maine.—Improved Medicine for Croup.-Patent dated April 8, 1862.—This medicine is composed of a tincture of the herbs Lobelia inflata and Scutellaria lateriflora, or blue scull-cap, to which is added a certain quantity of West India molasses.

Claim.—The compounding and mixing the forenamed ingredients in the manner and rela-

tive proportion as set forth.

No. 34,906. J. M. SINGER, of New York, N. Y.—Improvement in Sewing Machines. Patented in England, May 9, 1861.—Patent dated April 8, 1862.—The claim and engraving

explain the nature of this invention.

Cleim.—The combination of the feed bar of a sewing machine, with a cam for causing the feeding surface to reciprocate in one direction, and with inclined blocks that will cause it to reciprocate in a direction crosswise to the first, the combination being such that the feeding surface can be caused to move either longitudinally or transversely to the support of the matrial according to the guide which is employed to regulate the direction of the feed, substantially as specified.

Also, the combination of the feed bar of a sewing machine with mechanism for raising it and lowering it—that is, constructed in parts, which are adjustable so as to vary the distance to which the feeding surface is protruded above the support of the work, substantially as

specified

Also, the combination of the same feed bar with mechanism for moving, it either longitudinally or transversely to the support of the material, and also with adjustable mechanism for varying the protrusion of its feeding surface substantially as set forth.

No. 34,907.—J. S. SMITH, jr., of New York, N. Y.—Improvement in Imitation Metal Embroidery.—Patent dated April 8, 1862.—This invention consists in the use of twisted wires wound in a spiral form, and so collapsed as to bring the opposite sides in close proximity, whereby an elastic and flexible article is produced, which may be used for the manufacture of military shoulder straps, in imitation of the gold braid usually employed for this purpose.

Claim.—The imitation embroidery composed of the collapsed multispiral A. B., constructed

ubstantially as specified.

No. 34,908.—OLIVER SNOW, of West Meriden, Conn.—Improved Spring for Lamp Chim-Patent dated April 8, 1862.—This invention consists in attaching to the upper part of amp top, a coiled wire spring which may be adapted to tops of different lengths, and which a placed entirely outside of the chimney, away from direct influence of the heat and out of the way of the feeding tube. The upper portion is bent in such a manner as to rotain the edge of the chimney in position.

Claim.—The use of a coiled wire spring, in combination with the upper part of the lamp top to secure the chimney in its place, when they are constructed, attached, and fitted to pro-

duce the effect, substantially as described.

No. 34,909.—G. L. SQUIRE, of Buffalo, N. Y.—Improvement in Harvester Rakes.—Patent dated April 8, 1862.—The head of the rake is pivoted in the upright post, turning freely in the platform so as to form a swivel joint for the rake. The end of the rake is attached to the crank by means of the connecting rod in such a manner that on turning the crank half a revolution, the rake is drawn forward over the platform and retained in its place on completing the revolution of the crank, which in its descent causes the connecting rod to press against a bearing on the side of the platform so as to raise the rake above the same. the rake has returned to its original place, the action of the spiral spring connecting the rake-

head to the post brings the rake down upon the platform. By means of the adjustable plate and pin, the stroke of the crank and the length of movement of the rake can be adjusted to suit grain of different lengths.

Claim.—First, the employment or use of the crank F, or its equivalent, connecting rod G, and bearing I, arranged substantially as shown, and used in connexion with the post or swivel head C, for operating the rake B, as set forth.

Second, the arrangement of the adjustable bearing I, of the connecting rod G, and the adjustable plate H, which connects the front end of the rod G with the rake-head a, in combination with the adjustable pin f, which connects the back or outer end of the connecting rod with the crank F, substantially as described, whereby the movement of the rake B may be modified or varied, as set forth.

No. 34,910.—HENRY STEINWAY, jr., of New York, N. Y.—Improvement in Piano-forte Action.—Patent dated April 8, 1862.—This invention consists in an arrangement of parts w stated in the claim, constituting a repeating device which is applied so as to be entirely independent of the jack, and by means of which arrangement the said device is designed to be more free and positive in its operation, while allowing the jack to operate with great freedom and certainty

Claim.—First, the arrangement of the levers D E, post G, spring k, and screw k, relatively

tively to the key, the jack, and the hammer, substantially as set forth.

Second, the arrangement of the regulating screw m and fixed rail s, in combination with each other, and the lever E, substantially as set forth.

No. 34,911.—J. L. SWAN, of Lowville, Vt.—Improvement in Fire-arms.—Patent dated April 8, 1862.—The nature of this invention consists in the combination of a barrel and movable breech with a socket on the stock adapted to contain the said breech and the respective part of the barrel. The leading is effected by disconnecting the barrel from the stock and introducing a leaded breech, which is fired by a piercing instrument entering a percussion cap situated in a conical hole at the rear end of the chamber, and communicating with the charge. The arrangement of breech and barrel facilitates their disconnection for transports. tion.

Claim.—The breech h and barrel b, fitted as specified, in combination with the socket a receiving the parts, as set forth, when the explosion is effected by a piercing hammer 5 extering the detonating cap in the conical hole 6 of said breech h, substantially as set forth

No. 34,912.—Almon SWIFT, of Wolcott, Vt.—Improvement in Corn Shellers.—Patent dated April S. 1862.—The cylinder G is placed just above the rasping cylinder, and is designed to receive the ears of corn before they pass on to the sheller. The ears, as they slip down the incline, fall into the flutes and are thus presented to the sheller parallel to its axis—the space between each flute not only acts as a stop for the next descending ear, but also tends to bring

it into the proper position to fall into the next flute.

Claim.—The combination of the peculiarly constructed cylinder G, having not only a series of flutes f, f, but a surface between each two of them, with the inclined receiver F, the raping cylinder F, and its concave D, constructed and operating as and for the purpose special

No. 34.913.—George Teed, of New York, N. Y.—Improvement in Banjos.—Patent dated April 8, 1862.—This invention consists in the arrangement of a sound-board between the parchment head and the rim of the banjo. It also consists in a means of securing the parch ment head and of tightening it. The metal ring fitting within the annular cavity is placed over the edge of the parchment and brought down firmly upon it by hooks passing through the annular ring and provided at their projecting extremities with screw nuts by which they can be made to tighten up the parchment.

Claim.—The sound-board C, interposed and forming a means of connexion between the parchment head B and the rim A, substantially as and for the purpose specified.

And also the ring D, having an annular cavity a, receiving within it the ring b, and hooks ca and forming a means of connexion between the head B and sound-board C, substantially is described.

No. 34,911.—S. H. TIMMONS, of Memphis, Tenn.—Improvement in Locomotive Lamps Patent dated April 8, 1862.—This invention consists in a means of regulating the light of the head lantens on locomotives, so as to diffuse or converge the rays as may be desired. This seffected by placing the lens as in sliding tubes on the front of the lantern which can be made to slide in and out by a connecting rod operated by the engineer. At the same time to

position of the reflector can be altered and a still greater change produced in the light.

Claim.—Adjusting the distance between the lens g, and the reflector C, so as to converge or diffuse the light, as may be desired, by means of the rod o, or its equivalent, extending from the lamp to the caboose of the engine, within the immediate control of the engines.

substantially as described.

No. 34,915.—ELMER TOWNSEND, of Boston, Mass.—Improvement in Sewing Machines.— Patent dated April 8, 1862.—This machine is intended for leather or other heavy work, and the invention consists in so arranging the awl and needle as to puncture in opposite directions the material to be sewed, and also in feeding the material along by a lateral movement of the needle. The needle carrier is made to move vertically in the "postal carriage," which latter is provided with an upright standard extending up from the base plate, and has a reciprocating intermittent rectilinear motion given it by means of a cam and shaft. The "postal work supporter" consists of a support extending up from the main frame of the machine and provided with suitable flat top surface, on which articles, such as harness braces, strong banding, &c., that cannot be conveniently sewn when placed on the ordinary plate of the sewing machine, are placed. The postal carriage and needle move in this postal support. The plate is used when the machine is adapted to ordinary kinds of flat work, and is supported at one end by the postal supporter, an opening being made for the reception of the head of the said supporter, in order that their faces may be in the same plane. The flat plate is extended to the main frame, and is then supported by a rebate.

Claim.—The combination of the postal carriage, and its operative mechanism, not only with an apparatus, substantially as described, for feeding and sewing an article to be sewed, but with a postal work supporter, arranged relatively to the main frame of the sewing machine,

as represented.

Also, the combination and arrangement of a removable bearing plate N, with the postal work supporter B, and the postal carriage A, when applied to sewing mechanism of the kind, and to operate in manner substantially as described.

No. 34,916.—THOMAS WARKER, of New York, N. Y.—Improvement in Apparatus for Aerating Liquids.—Patent dated April 8, 1862.—The nature of this invention consists, first, in arranging two faucets, one to communicate with the gas space and the other with the water space of the receiver in such a manner that from one, pure gas and from the other, gaseous liquid can be drawn; also, in purifying the gas by compelling it to pass through the liquid contained in the receiver before it reaches the gas space. Second, in the arrangement of an apright tube, in combination with the collar forming the condenser between the generator and receiver, with the gas faucet in such a manner that said gas faucet and the liquid faucet can be made in one piece with the connecting collar. Third, in the arrangement and combination of a generator and receiver, which are connected by a collar containing a ball valve, upright pipe, safety valve, and two faucets.

Claim.—First, the arrangement of two faucets DE, one to communicate with the gas space and the other with the water space of the receiver B, as and for the purpose described. Second, the arrangement of the vertical tube c, in combination with the connecting collar C

and gas faucet D, substantially as and for the purpose set forth.

Third, the combination and arrangement of the generator A, receiver B, collar C, ball valve a, tube c, faucets D E, and safety valve F, all constructed and operating substantially in the manner and for the purpose shown and described.

No. 34,917.—LINN VAN ORDER, of Ithaca, N. Y.—Improvement in Mica Lamp Chimneys.— Patent dated April 8, 1862.—The claim and engraving explain the nature of this invention. Claim.—So constructing the framework of the chimney as to enclose the edges of the mica on all sides, and making one end adjustable, so as to allow the ready and easy removal of the mica, for the purpose of cleaning the same, or renewing it when worn out, soiled, or otherwise njured.

No. 34,918.—A. B. TRAVIS, of Brandon, Mich.—Improvement in Seed Drills and Cultivaters.—Patent dated April 8, 1862.—The nature of this invention consists in an arrangement of devices by which the teeth of a cultivator can readily be shifted laterally by the attendant. and also by which the depth of penetration of the teeth into the soil can be regulated.

Claim.—The frame F, having the standards f and teeth g attached, connected to the draught pole C by the universal hinge or joint e, resting on the adjustable bolster D, and operated through the medium of the rock shaft I, lever H, and slotted bar G, all arranged as and for the purpose set forth.

No. 34,919.—C. K. Alsop, of Middletown, Conn., assignor to J. W. Alsop, of New York, N. Y.—Improvement in Percussion Cap Primer.—Patent dated April 8, 1862.—Between the top and bottom plates of the primer is placed a disk which is provided with scallops in which the caps are placed, and underneath the disk is a spiral spring by which the disk is caused to rotate so as to force the caps successively into the extension as fast as they are forced out apon the nipple of the gun by the plunger. The annular partition in the extension forms a bearing for a spiral spring attached to the plunger, which causes it to return to its place after the cap has been forced out.

Claim.—In the construction of a portable hand primer, first, the extension F, in combination with a circular percussion cap primer and spring plunger, the whole constructed and

operating substantially in the manner and for the purposes described.

Second, the tubular extension F, made with a right-angled discharge passage, and with an annular partition i, applied for the purpose and in the manner described, to a circular percustion cap primer.

Third, a circular percussion cap primer of the character described, so constructed that it holds a cap in suspension out of the circle of the top of the case A. and by the pressure of the thumb upon one of its parts forces the said cap vertically upon the nipple of a fire-arm, substantially as described.

No. 34,920.—D. B. CLEMENT, of Milton, Mass., assignor to C. B. Boyce & Co., of Boston, Mass.—Improved Clothes-Wringer.—Patent dated April 8, 1862.—This invention consists in applying the power of a single spring to both ends of the roll through leves pivoted to the frame of the machine and connected at their outer ends by a spring. These levers are each provided with shoulders which bear upon the extremities of the axle of the upper roll and so apply the pressure. The object of the invention is to equalize the pressure at both ends of the roll, when one end is raised higher than the other, owing to the unequal thickness of articles passing between.

Claim.—Applying the power of a single spring H to both ends of the roll E, through the levers G, substantially as described.

No. 34,921.—E. E. CONRAD, absignor to HENRY COULTER, of Philadelphia, Pa.—In-provement in Holders for Lamp Shades.—Patent dated April 8, 1862.—The claim and engaving explain the nature of this invention.

Claim.—First, the clamps a a a for the purpose of holding the shade as and for the purpose

set forth and described.

Second, clamps a a a a, in combination with the double braces b b b b, and the wire rim C, in the manner and for the purpose specified.

No. 34,922.—Charles Draeger, assignor to himself and John Otto, of Indianapolis. Ind. - Improvement in Repeating Fire-arms. - Patent dated April 8, 1862. - The nature of this invention consists in the arrangement of a revolving magazine at the breech end of the barel of a gun and the encasement of a helical spring within said magazine, which, when would up, and all the cartridge chambers are supplied with powder and ball, the simple cocking of the hammer and pulling out the cartridge plunger causes the magazine to revolve and bring the chambers opposite the end of the barrel, so that the act of pushing the plunger forward sends the cartridge home to its proper place in the barrel for ignition, which is effected by the detonating needle moving longitudinally in the plunger and forced into the cartridge by the action of the hammer. The needle is thrown out of the cartridge by the action of a spiral spring attached to it.

Claim.—First, the arrangement of a cartridge magazine B, revolving on a longitudinal

axis, as shown.

Second, a plunger p and needle π , constructed as set forth, and combined in their operation

with a revolving magazine, as stated substantially; and

Third, the helical spring S, when used as shown, for the purpose of rotating the cartridge magazine B.

No. 34,923.—J. C. HOLSTON, of Derry, N. H., assignor to S. M. Davis, of Lawrence, Mass.—Improvement in Coffee Roasters.—Patent dated April 8, 1862.—The tube to which the cylinder is attached is made to rotate by means of the crank and turns freely in the tubelar handle. The door of the roaster can be opened by the wire which catches upon a pro-

jection upon the handle when the door is closed, and thus keeps it shut.

Claim.—The combination of the hinged door B, the wire C passing through the hollow tube E, used to open and close the door B and the catch F, with a corn popper or coffee roaster, when constructed substantially as described and for the purposes set forth.

No. 34,924.—PHILANDER ROUSE, of Macedon, N. Y., assignor to Himself and W. S. Higgins, of North Bridgewater, Mass.—Improved Topsail Rig.—Patent dated April S. 1862.—The object of this invention is to obtain the advantages of an auxiliary yard with the tise of only one sail, so that when convenient said suxiliary yard can be lowered to the deck and the full sail set. The sail is provided at its middle with a band provided with lacing, by which the sail can be attached to the extra yard. The topsail yard can be lowered down to the extra yard so as to enable the upper half of the sail to be reefed. By means of an elementary and so as to enable the upper half of the sail to be reefed. vating screw the extra yard can be raised so as to take up any slack caused by the stretching of the sail.

Claim.—The third or intermediate yard, the lower yard, the topsail yard, and the single topsail, as arranged and applied together, substantially in manner and so as to operato as

specified.

Also, the arrangement and combination of the elevating screw I, or its mechanical equivalent, with the mast or its cap, the three yards, and the auxiliary yard supporter or brace H. the whole being to operate substantially as specified.

No. 34,925.—H. B. THOMAS, assignor to J. W. ENGLISH, of Racine, Wis.—Improvement in Dampers.—Patent dated April 8, 1862.—This invention consists of a ring or annular plate fitted with a transverse spindle like a butterfly valve or ordinary damper, and having attached to it on opposite sides, two disks of smaller diameter than its exterior, so arranged that when the ring is fitted to a smoke-pipe or other circular conductor, and the ring is brought to a position at right angles to the pipe or conductor in which an ordinary butterfly valve or damper is closed, there is a passage left round the valve between the ring and plates, so that while the draught or escape of heat is checked, the escape of smoke is not prevented and the

heat is thrown equally against the circumference of the pipe.

Claim.—The valve composed of the ring and annular plate A and the two disks C C and spindle or journals a a, the whole arranged and applied in combination with each other, sub-

stantially as specified.

No. 34,926.—ROSEWELL THOMPSON, of Boston, Mass., assignor to Himself and J. C. Wilder, of Boston, Mass., and Z. W. Holden, jr., of Bristol, Mass.—Improvement in Sexing Mackines.—Patent dated April 8, 1862.—On the inner edge of the heel of the hook, and projecting a short distance above the flat face of the same, is a guard, the object of which is to prevent the thread from being oiled when passing the heel; the hook being driven by means of pins in the holes in its flat face. The removable bobbin case is placed in a round hole in the hook, and on its outer edge is a bevelled "start" which eners a slot in the fixe of the hook, so that the case is made to ready with the hook, and or it the same time the face of the hook, so that the case is made to revolve with the hook, and at the same time the "start" operates as a cast-off for the thread, as the point of the hook enters the loop formed by the needle.

Claim.—First, the guard k upon the hook E, in combination with the driving pins d, sub-

stantially as described and for the objects specified.

Second, constructing the bobbin case g with a start & upon its outer end, substantially as described, for the purpose of confining said case so as to revolve with the hook, and also to act as a cast-off for the thread when the point of the hook has entered the loop formed by the needle.

No. 34,927.—J. W. WILCOX, of New York, N. Y., assignor to E. H. Ensign, of Orange, E. C. Bringeman, of Clinton, and T. C. Fanning, of Brooklyn, N. Y.—Improvement in Envelopes.—Patent dated April 8, 1862.—To the main flap of the envelope are attached two eyelets, through which passes a tape or string for the purpose of more readily securing the contents and prevent it from being surreptitiously opened without exposure when the onvelope is sealed with wax. The envelope may be constructed in the ordinary thin form or in that of a rectangular box of any required thickness, and if the latter, providing it at its ends with small top flaps to be folded in over their contents before the main flap is

Claim.—First, the combination of a tape or string with an envelope so attached as to allow of being slipped around to move the knot, as described, but not to admit of removal when tied, with the effect substantially as set forth.

Second, an envelope constructed in the box form, or with a rectangular transverse action,

and strengthened by eyelets ϵf , or their equivalents, as described and shown.

Third, in envelopes of the box form, the use of the supplementary flaps c d at the ends, substantially as and for the purpose specified.

No. 31,928.—ISAAC WINSLOW, of Philadelphia, Pa., assignor to J. W. Jones, of Portand, Maine.—Improved Indian Gorn Preserved Green.—Patent dated April 8, 1862.—The hermetically sealed cans which contain the corn are exposed to heat for a certain length of time, by which means the juices of the corn are coagulated and the tendency to putrefaction constructed. The cans are then punctured, to allow of the escape of vapors, and imme-

districtly afterwards sealed up and again exposed to heat.

Claim.—The described new article of manufacture, namely, Indian corn, when preserved in the green state without drying the same, the kernels being removed from the cob, hermeti-

cally scaled and heated, substantially in the manner and for the purposes set forth.

No. 34,929.—SMITH GROOM, assignor to Himself, JACOB SHAVER, and LEWIS POTTER, of Troy, N. Y.—Improvement in Stoves.—Patent dated April 8, 1862.—The nature of this invention consists in the introduction into the fire chamber by means of annular rings provided with openings, of super-heated steam generated in the boiler, for the purpose of assisting in the combustion of the fuel.

Claim.—The combination of the annular steam chamber O, with the fire chamber R and the outside wall be substantially as and for the purpose described and set forth.

Also, the combination of the annular chamber O and the annular steam pipe N with the boiler B by means of the pipes D C, substantially as and for the purpose described and set forth.

No. 34,930.—T. S. LAMBERT, of Peckskill, N. Y.—Improvement in Cooking Stoves.—Patent dated April 8, 1862.—This invention does not admit of a brief description; its nature will be understood from the claims.

Claim.—First, the application of one or more division plates, extending along the flue under the oven from one side of its bottom to its central diagonal line, in all those cases in which

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the draught passes under the oven bottom at one side and leaves it from another at right angles to the former, substantially as set forth.

Second, the termination of the inner extremities of those division plates at the central

diagonal line by parabolic curves, substantially as set forth.

Third, the continuation of those plates after they have curved, if they are continued along the flue under the oven till they reach the flue at the back of the oven, substantially as set forth.

Fourth, the attachment of division plates to the movable section of the bottom of the oven in such a manner that when the section is raised the division plates are removed and the flue

easily cleaned, substantially as set forth.

Fifth, the construction of a flue across the entire back of the oven and leading to the pipe collar after the products of combustion have traversed four sides of the oven, substantially as set forth.

Sixth, the application of division plates in the back flues with graduated lengths to assist in equalizing the distances from different parts of the fire-box to the pipe-collar, in the direc-

tion of the draught, substantially as set forth.

Seventh, the application of the independent slides C C, or of one of them with its back holes twice as far apart as its front ones, so as to control the draught in the front and back part of the fire-box independently of each other or together, as may be desirable, substantially as set forth.

Eighth, the application of the division plate in the ash pit, for the purpose of supplying

air to the back part of the fire-box, substantially as set forth.

Ninth, the application of a wide-margined grate rest, with perforations and a scolloped edge, or either of these devices in combination with a movable fire-plate at the side of the fire-box, substantially as set forth.

Tenth, the construction of the slide of the oven above the grate rest, substantially as set

Eleventh, the construction of the damper rod with one or more joints, substantially as set forth.

Twelfth, the construction of holes in the margin of the sides and back of the bottom, in combination with the dampers leading into and out of the oven for the purpose of using the range as a heater when "jacketed," substantially as set forth.

Thirteenth, the combination of the slides or slide C or the division plate D with the perforated or scolloped grate rest, the partial and movable grate cover and the movable fire plate, substantially as set forth.

Fourteenth, the combination of the draught dampers or damper, the dampers over the oven, and the division down the flue at the side of the oven, under its bottom and up its back. substantially as set forth.

Fifteenth, the combination of the dampers leading into the ash pit or either of them, and those leading into and out of the oven with the holes in the sides of the margin of the bottom, substantially as set forth.

Sixteenth, the combination of each and all the three classes of improvements and particulars mentioned in the immediately previous three claims in one stove, substantially as set forth.

No. 84,931.—T. A. TIMMINS and A. F. W. EDWARDS, of Philadelphia, Pa.—Improvement is Hammock Tents.—Patent dated April 8, 1862.—The claim and engraving explain

the nature of this invention.

Claim.—In combination with a circular tent having vertical walls, a series of hammocks E, arranged radially within the tent and connected to the pole of the same, the series of guy topes G and standards D, when the latter, together with the canvas cover and aided by the guy ropes, serve to form the vertical wall, and when the several parts are connected together and arranged as and for purpose set forth.

No. 34,932.—C. W. WILLIAMS, of Boston, Mass.—Improvement in Sewing Machines.— Patent dated April 8, 1862.—The pressers are connected by their rods or shanks and suitable pivots to a lever D, hung by a joint or swivel-pin to the needle-operating lever at any given distance from the presser shanks. The mode of hanging the pressers is designed not only in insure an alternate action for each presser in harmony with each other and with the needle, but also to cause the pivot of either presser to become alternately the fulcrum for the naing presser, thus producing a continuous pressure by the pressers acting alternately.

Claim. - First, the combination of a feeding instrument, having a reciprocating movement in a horizontal plane only, with two independent pressers so arranged that one shall press the cloth so as to attach it to the feeding instrument, and the other shall hold the cloth upon

the table, said pressers operating alternately, substantially in the manner described. Second, connecting the two pressers with each other and with the needle arm by a lever or its equivalent, arranged and operating substantially as described.

No. 34,933.-WILLIAM ACKERMAN, of Flint, Mich.-Improved Machine for Cutting Trees and Logs.—Patent dated April 15, 1862.—This invention consists in the employment of a

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conical rotating cutting head formed of a number of tapering blades, and mounted upon the front end of a shaft which is journalled longitudinally in standards, at each end of a frame adapted to slide longitudinally in a main frame. Beneath this sliding frame is journalled transversely in the main frame a shaft carrying pinions which gear into racks attached to the sliding frame, and impart motion to the frame. A crown gear-wheel is also mounted upon a transverse shaft, and provided with bevel teeth which gear with longitudinal ribs upon the cutter shaft so as to impart rotation thereto. By this means a rotary and an advanced motion are simultaneously imparted to the cutter.

Claim.—The combination of the crank shaft H A, gear wheel I, sliding frame C c E F, ribled shaft D, and rotary cutter G, constructed, arranged, and operating substantially as and for the purposes explained.

No. 34,934.—M. L. Baker, of Mannsville, N. Y.—Improvement in Machines for Gathering and Binding Grain.—Patent dated April 15, 1962.—Between the upper parts of two uprights which are attached to the side pieces or handles of the machine, is journalled a bar or that B, through which pass a series of teeth s, which are slightly curved. These teeth are secured in a head to which are attached rods that extend downward and are attached to a treadle frame connected at its forward end to the front of the main frame. Attached to a cross-bar are two curved bars E extending upwards to serve as bearings for the cut grain while being bound. When a sufficient amount of cut grain is collected, the operator depreses the treadle, thereby elevating the fingers s and clamping the gavel between the ingers and the curved bars.

Claim.—The arrangement of the bar B and teeth a passing through said bar, with the

head C, link f, treadle D, curved bars E, and frame A, as shown and described.

No. 34,935 .- E. F. BASSETT, of Seymour, Conn. - Improved Mattress .- Patent dated April 15, 1862.—This invention consists in making the mattress endless, or in the form of a hollow cylinder, which, when in use, is pressed together and fastened so as to form a mattress of double thickness. When matted or crushed in one place, from use, the sides or ends of the mattress may be unfastened and a new surface presented by pressing the cylinder together at different points from the first.

Claim.—An endless mattress B, constructed substantially as shown and described.

No. 34,936 .- WM. BOYNTON, jr., of Auburn, N. Y .- Improvement in Churns .- Patent dated April 15, 1862.—This invention consists in the employment of two dasher shafts provided each with slats placed sufficiently far apart to admit of the passage of cross-bars between them. Motion is imparted to the shafts by means of pinion wheels connected by a series of gearing with the crank shaft.

Claim.—The stationary shaft A, in combination with the double arms e e, the revolving shafts k k, and the cross-bars k k k, operated as fully set forth and described.

No. 34,937 .- J. R. BRADLEY, of Ironton, Ohio. - Improvement in Converting Cast Iron into Wrought Iron and Steel.—Patent dated April 15, 1862.—Green copperas, common salt, black oxide of manganese, litharge, yellow prussiate of potash, are added to the cast iron while in the boiling or puddling furnace, successively in the above order, and in certain pro portions, when it is desired to produce malleable iron. For the production of steel the above substances are used, with the exception of copperas and litharge.

Claim.—The use of the several substances set forth in the foregoing specification sub-

stantially in the order, manner, and relative qualities set forth, for the purpose of more dectually and thoroughly converting cast iron into malleable iron or steel, as stated re-

spectively.

No. 34,938.—J. W. BRIGGS, of Cleveland, Ohio.—Improved Stitching Machine.—Patent david April 15, 1862.—This invention consists in the employment of an eye-pointed needle, which is forced through the material to be sewed by the action of the treadle strap and vibrating arm. A thread is passed through the eye of the needle, which is then forced through the article to be stitched. A common hand needle and thread is then passed by hand through each of the loops of the other thread on the back of the fabric, as they are successively formed by the action of the vibrating arm and feed motion of the machine.

Claim.—The combination of the eye-pointed needle A, the vibrating arm C, strap D, and leadle, with a feed mechanism, when the several parts are constructed and arranged as de-

scribed, and for the purposes set forth.

No. 34,939 .- EDWIN R. BROWN, of Chicago, Ill .- Improved Ticket Recorder .- Patent dated April 15, 1862.—The nature of this invention consists in a means of registering the number of tickets received in the machine, so as to prevent fraud in those receiving tickets, checks, &c. The machinery is enclosed in a box, from which projects the hand-lever and bopper for receiving the tickets. In order to admit tickets into the receiver, it is necessary to draw back the hand-lever, which by means of suitable gearing communicates to the drum which is geared with the index. The motion of the hand-lever causes the bell to sound.

Claim.—The combination of the hand-rod a, drum g, index l, bell v, and ticket receiver

4 2, or their equivalents, constructed, arranged, and operating substantially as and for the

purposes set forth.

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No. 34,940.—JOHN W. BROWN, of New York, N. Y.—Improved Letter-Box.—Patent dated April 15, 1862.—This invention relates to that class of letter-boxes which are attached to lamp-posts or other convenient fixtures in streets to receive letters. Above the opening in the receiving box is placed a cylinder provided with two openings, one communicating with the receiving box, the other for the insertion of letters. Outside of this cylinder is placed a movable semi-cylinder, which covers the opening, and inside the cylinder is another cylinder arranged so as to move in connexion with the exterior semi-cylinder. In the inner cylinder are two partitions, which form a central chamber, in which the letters are received when the semi-cylinder is turned so as to uncover the letter opening, but when the semicylinder is returned in its place, the mouth of the central chamber is brought over the opening in the receiving box, and the letter drops in it. The valve which is pivoted at one end to the chamber is so arranged that when the mouth of the chamber is uppermost it is parallel with one of the partitions, but when the mouth is down it has free play, and thus permits the diameter of the chamber to increase so as to prevent its choking by the crowding in of packages. The serrated edge prevents the withdrawal of letters or packages by means of a hook.

Claim.—First, the valve F, in combination with the chamber E, cylinder D B, and semicylinder C, the cylinder being provided with the openings a b, and all arranged for joint

operation, as and for the purpose set forth.

Second, the toothed or serrated edge n of the opening a of cylinder B, when used in connexion with the semi-cylinder C and cylinder D, provided with the chamber E and valve F. for the purpose specified.

No. 34,941.—Hiram Burk, of Mineral Point, Ohio.—Improvement in Mining Drills.—Patent dated April 15, 1862.—This device consists of a post or stand having near its upper end an opening through which the drill works. The drill is fitted in a rocking journal, which is provided with two bearing projections, a screw thread being cut on the inner surface of the journal which receives the screw on the shank of the drill. A cap or head piece Is screwed upon the top of the post for the purpose of holding it in a vertical position, which is done by unscrewing it until it rises so that its top strikes against the top of the bank.

Claim.—First, the combination of post A, drill C, and its rocking and feeding journal D.

substantially as set forth.

Second, the combination of the holding cap or head piece E, screw drill c, with its recking and feeding journal D, with the post or stand A, said parts being arranged to operate in relation to each other as and for the purposes set forth.

No. 34,942.—WILLIAM B. BURNS, of East Saginaw, Mich.—Improvement in Saw Mills.— Patent dated April 15, 1862.—This invention consists in an improvement in that class of tical rods, and making the saws adjustable on the gibs by having the upper end of each saw provided with a strap, which passes between the two plates of the gib, and is retained by a key, and by having the lower end of each saw hooked so as to catch into hook-formed

plates permanently secured in the lower gib.

Claim.—The vertical rods G G and gibs or cross pieces H H', connected and arranged as shown to form the saw gate or sash, in combination with the two carriages L L, and the adjustable gang saws I, placed at each side of the gate and fitted in the gib, as shown, for

the purpose set forth.

No. 34,943.—CHARLES CHINNOCK, of Brooklyn, N. Y.—Improvement in Beer Measure.-Patent dated April 15, 1862.—This invention consists of a float, which is attached to an upright that moves through a slot in a bar extending across the top of the can. The float being too heavy to be raised by the foam, is lifted by the liquid as the latter flows into the can, and, by means of a scale on the upright, the quantity of liquid in the can is indicated.

Claim.—First, the use of a float, to separate the liquid from the foam, in combination with

a beer measure, substantially as described.

Second, the application of an index to the float in the same combination by which the quantity of liquid in the can is accurately indicated and measured, independent of the froth

No. 34,944.—WILLIAM A. CLARK, of Bothany, Conn.—Improvement in Bullet Moulds.-Patent dated April 15, 1862.—The cut-off is provided with two longitudinal slots, one of which plays under the head of the pivot screw, and the other under the end of a screw on the upper face of the mould, near the handles. A longitudinal movement is given to the out-off by means of a lever having a projection which bears in a slot at the end of the

Claim.—The mode of operating the cut-off of bullet moulds, made to slide longitudinally

by a lever, substantially as and for the purposes set forth.



No. 34,945.—SAMUEL S. CROCKER, of Lawrence, Mass.—Improvement in Machinery for Cleansing Paper Palp.—Pa ant dated April 15, 1862.—The larger receptacle consists of a cylindrical tub made concave at its bottom; at its lowest point is an opening provided with a valve, which communicates with another small receptacle provided with an aperture by which it may be filled with water, and also with an exit opening. The pulp, together with water, is admitted into the larger receptacle and the stirrer set in motion, by which means the mixture is made uniform, and at the same time the heavy particles caused to settle at the bottom, so that on opening the valve, they will fall into the lower receptacle, which being filled with water does not admit of any of the pulp. Light particles are drawn into the centre of the upper receptacle by the centrifugal motion communicated to the pulp, when they can easily be akimmed off.

Claim.—The combination of the large and small receptacles, arranged to operate together,

substantially as and for the purpose specified.

No. 34,946.—John Dillingham, of Turner, Maine.—Improvement in Wood-saw Frames.—Patent dated April 15, 1862.—This invention consists in the combination of an suciliary frame with sliding adjustable catches for the purpose of straining the saw. is effected by compressing the two outer frame pieces, and slipping the dogs towards the centre of the cross-piece. The dogs take hold of the ratchet teeth on the under side of the cross-piece, and thus keep the saw strained.

Claim.—The combination and arrangement of the dogs or catches K L, with the double saw frame, when constructed and operated in the manner and for the purpose specified.

No. 34,947.—JOSEPH DITTO, of New York, N. Y.—Improved Water-proof Coating for Cloth, Felt, &c.—Patent dated April 15, 1862.—The nature of this invention is explained by the claim.

Claim.—Combining India-rubber and the residuary gum, separated from stearine, to form a water-proof coating, for the purposes described.

No. 34,948.—F. N. DuBois, of Chicago, Ill.—Improved Machine for Amalgamating Gold.—Patent dated April 15, 1862.—The gold is amalgamated in the cylinder by revolving it which brings the particles of ore and mercury into close contact. In order to separate the mercury, the amalgam is conducted into the hopper and passes out through a conical feed valve into the sluice. A current of water is introduced on each side of the conical valve which washes out the amalgamated ore from the hopper. A rocking motion is given to the sluice, which latter is constructed of mercurialised copper and provided with low transverse partitions. The mercury settles at the bottom of the sluice and is retained by the partitions, the smaller particles adhering to the mercurialized bottom, while the gold is carried off by the

Claim.—First, the conical feed-valve C, with its attached water-pipe l, substantially as

described and for the purpose set forth.

Second, the swinging vibratory sluice D, possessing the distinctive feature of its being swing upon the centre, from which the bottom of the sluice is struck, substantially as described and for the purpose set forth.

Third, the use of conical feed-valve C, and sluice D, in combination with the cylinder A, for the purpose of completing a new and useful process in amalgamating gold, substan-tially as described and set forth.

No. 34,949.—WILLIAM H. DUTTON, of Utica, N. Y.—Improved Skate.—Patent dated April 15, 1862.—This invention consists in so constructing the runner of the skate that it will form in its transverse section a section of a circle, and providing the said runner with ingitudinal blades or projecting edges to catch into the ice and prevent lateral slipping. To the upper part of the rear end of the runner is hinged a plate, which during the forward motion of the skate is allowed to drag upon the ice, but acts as a pawl or hold-fast to prerent a backward movement of the skate.

Claim.—First, a skate provided with a runner A having its bottom or face of convex form, a transverse section of which is a section of a circle, and provided with longitudinal blades or edges a at a suitable distance apart, and extending its whole breadth or width,

substantially as described.

Second, the pawl or hold-fast C, applied to the skate, substantially as shown and described, to operate as and for the purpose set forth.

No. 34,950.—CHARLES T. JAMES, of Providence, R. I.—Improvement in Projectiles for Firing Hot Shot.—Patent dated April 15, 1862.—This invention consists in making a case of a cylindrical form, suited to the bore of the cannon, with the forward end sdapted to receive the shot after it has been heated, and provided with an expansible packing, which by the force of the explosion, will be expanded out and against the bore of the cannon and into the grooves thereof, if rifled, so as to stop windage and to give the required rotary motion to the shot when fired from a rifled cannon; the said case at the same time prevents the heat of the shot from firing the charge.

Claim.—The making of a case for firing hot shot, with an expansible packing ring, or the equivalent thereof, in combination with a cavity, or the equivalent thereof, at the forward end, so that it can be connected with a hot shot, substantially as and for the purpose specified.

No. 34,951.—Albert A. Freeman, of Philadelphia, Pa.—Improvement in Portable Spool-holders.—Patent dated April 15, 1862.—This invention consists of a spring supporter for a spool, which can be readily attached to the dress of the sewer, so that the end of the The supporter is formed of some elastic thread can always be within convenient reach. metal, and consists of a back-plate to which is soldered a plate spring, a thread-holding arm, and wire, which latter is coiled and then bent upward so as to produce a spring stem in front of the spring plate, whilst the other portion of the said wire is fixed to the rear side of the back-plate, and bent downward so as to form a spring pin, which catches in a hook on the lower end of the plate.

Claim.—A portable spool-holder, consisting of the attaching pin f4, the spring stem f". the spring plate d, and arm e, the same being arranged and combined together substantial.

tially in the relation to each other described and set forth, for the purpose specified.

No. 34,952.—Carlos French, of Seymour, Conn.—Improvement in Car and Carriage Springs.—Patent dated April 15, 1862.—This invention consists in making a spiral or volume spring from a corrugated steel plate, the corrugations running in the direction of the wind-

ing of the plate.

Claim.—A car or carriage spring wound into a spiral form, and having corrugations running in the direction of the spiral, said corrugations being formed in the plate in advance of the winding, by which means is produced a much lighter spring without detracting from its

strength, substantially as described.

No. 34,953.—Conrad Furst, David Bradley, and John Lacy, of Chicago, Ill.—Inprovement in Horse Rakes.—Patent dated April 15, 1862.—A socket is attached to the are in which moves a slide in which the rake head is placed. By means of this arrangement the rake can be used with wheels of any size, and also be raised at any desired distance from the ground.

Claim.—The slide and socket M and P, arranged in combination with the rake head and

axle, in the manner and for the purpose specified.

No. 34,954.—Curtis Goodwin, of New Brunswick, N. J.—Improved Cord-Winder— Patent dated April 15, 1862.—This invention consists of an upright stand or post, having a broad base, by which it may be attached to the counter, desk, or other stationary object About the middle of this post is a shoulder, and above this the post is formed into a pivot or gudgeon, upon which is placed a square thimble having an offset resting upon the shoulder. When the device is used this square cap is inserted into the hole in the centre of the ball of cordage, which is then pressed firmly on the cap so as to keep the ball from slipping.

The device is designed to facilitate the unwinding of cord, for tying up packages or other

purpose; for by simply pulling the end of the thread the ball rotates freely on the pivot and a sufficient quantity of twine is unwound.

Claim.—The post, with gudgeon and cap, made with a tapering square so as to adjust itself to a variety of sizes of balls or rolls of twine, rope, and cordage, substantially as set forth in the specification and drawings.

No. 34,955.—John S. Gage and P. D. Beckwith, of Downgiac, Mich.—Improved Seeding Machine.—Patent dated April 15, 1862.—This invention is designed as an improvement on the machine for which a patent was granted to John S. Gage, July 10, 1860; and it consists in a device for throwing the seed-dropping apparatus in or out of gear. The seed slides have a reciprocating motion communicated to them by means of a vibrating lever having attached to it near each extremity, rollers which bear against the cam surface of the outer driving wheel. Each end of this lever is connected by rods to the seed slides, which latter are thus caused to reciprocate as the machine moves along. A long curved lever is attached at one end to the main frame, the other end being provided with a latch, which fits in a slot in the upper corner of the hopper. This lever bears against the vibrating lever, and thus when in place, keeps the seed-dropping apparatus in gear. The ends of the hub of each furrow wheel are fitted to work in an annular recess in the large end of the hub of the adjoining wheel, whereby any dirt which may be lifted by the wheels is prevented from falling on their bearings.

Claim.—First, the lever G, slotted plate O, fulcrum pin a, pin n, vibrating lever E, connecting rods d d, friction arms b b, friction rollers c c, with the cam surface J, and diving wheel B', when combined and arranged, to operate in the manner and for the purpose set forth

Second, forming the ends of the hub m of each furrow wheel of unequal diameter, and having the small end of the hub of one wheel fitted to work within a recess in the large end of the hub of the adjoining wheel, in combination with the axle C, substantially as described for the purpose set forth.

No. 34,956 .- ISAAC W. HARSHBARGER, of Brandonville, Va. -- Improvement in the Menefacture of Soap.—Patent dated April 15, 1862.—The nature of this invention is explained by the claim. Digitized by GOOGIC

Claim.—The employment or use of gum ammoniac and burnt copperas, when the same are xed together with borax, spirits of hartshorn, sal soda, water, and ordinary hard or soft ip, substantially in the manner and for the purpose shown and described.

No. 34,937.—JOHN HAWORTH, of Mauchester, England.—Improvement in Street Rails.—Patent dated April 15, 1862.—The main rails are flat and are flush with the surface of street, and the wheels of the carriage are retained upon them by a guide-wheel attached the carriage and running in a grooved central rail. This guide-wheel can be raised up m the guide-rail by means of a lever operated by the driver whenever it is desired to run carriage off the railway.

Claim.—The employment, in combination with each other, of the flat-grooved central rail the adjustable guide-wheel C, running within said rail, and the flat rails a, as shown and

scribed.

No. 34,958.—John Heaton, of Flushing, N.Y.—Improvement in Raising or Lifting ights.—Patent dated April 15, 1862.—About the middle of the upright is pivoted a jointed ver, the joint connecting the two parts of which is formed by inserting a tenon on the inner at into a mortise on the outer part and connecting them by a pintle; the end of the tenon bevelled from above, and sufficient space exists between this extremity and the back end the mortise for the passage of the rope, which passes over a pulley on the top of the upright, it is attached to the upright. In order to operate this device, the rope is grasped by the easter with one hand while the lever is raised with the other. When the lever is raised the peslips through the joint; but when it is brought down, owing to the lower end of the non being brought nearer the back end of the mortise, the rope is clamped, and a bight, wal to the distance the lever was raised, is taken up by the operator, thus raising the weight s corresponding distance.

Claim. First, the lever Δ , formed of two parts, ab, connected by a joint B, arranged as own, to admit of a rope E passing through it, and to clamp the rope as the lever descends, d to release the rope and slip over it as the lever is raised, for the purpose specified.

Second, the combination of the lever A, rope E, upright C, and base-plate D, all connected and arranged for joint operation, as and for the purpose set forth.

No. 34,959.—Daniel Heilig, of Nebraska City, Nebraska Territory.—Improved Mods. Cooking, Boiling, Evaporating, and Baking.—Patent dated April 15, 1862.—Reference the specifications and drawings will be necessary for an understanding of this invention. Claim.—The combination, with a stove and furnace, constructed and operated as deribed of the metal coils shown in Fig. 9, the concentric boilers, with their steam pipes, nown in Fig. 5, the water reservoir D, and the baker, as shown in Fig. 6, the whole being subined and operated together substantially as set forth.

No. 34,960.—ROBERT C. HELM, of New Brunswick, N. J.—Improved Method of Pro-ting Diagonal Cloth.—Patent dated April 15, 1862.—The method of producing diagonal oth, which constitutes this invention, consists in unwinding the cloth from one roller upon tother placed obliquely to it. Only one corner of the cloth is attached to the drawing ther, and the delivery roller is then set at any desired angle, one bearing of said roller being wivelled, the other being set in a curved slot in order to allow for such arrangement. Conquently when the fabric is wound upon the roller, one edge is strained more than the other, at the threads are made to assume a diagonal direction. In order to vary the rapidity of is rotation of the drawing roller, as its diameter is increased by the cloth wound upon it, be strap which operates it is made to pass over two conical pulleys.

Claim.—The method described of preparing or producing what is known as diagonal bth, or cloth in which the threads of the warp and weft are caused to occupy a position agonal to each other, by the use of two rollers, one of which is placed obliquely to the ther, or by the use of two parallel rollers, when the cloth passes from one to the other, in

a oblique direction, substantially in the manner described.

No. 34,961.—SELAH HILER, of Harlem, N. Y.—Improvement in the Manufacture of Gun Bernis.—Patent dated April 15, 1862.—This invention consists of three features: First, the ingot or bar of cast steel from which the barrel is made around a central core, to as to form in the bar a longitudinal hole for the bore E; second, decarbonizing the ingot a the usual manner until sufficient carbon is removed to allow it to be rolled; third, rolling he bar upon mandrels inserted in the bore and fixed so as to be held stationary and succeswhile the barrel is drawn off by the action of the rollers, decreasing the diameter as the banel is extended and the size of the bore diminished by the rolling operations. It is claimed that by this process the texture of the iron is much consolidated and rendered fibrous and nomogeneous.

Claim.—Manufacturing barrels for muskets, rifles, or other hand fire-arms, of iron or

steel, by the combined operations, substantially as specified.

No. 34,962.—Daniel Holmes, of Chelsea, Mass.—Improvement in Rolling or Frictionless Journals.—Patent dated April 15, 1862.—The main axle bears upon the rollers B B', &c., which rotate between the axle and the bearing portion of the journal box. These bearing rollers are kept in place by the separate portion of the smaller rollers, while the enlarged head bears on one side against the flange D attached to the axle, and on the other against the end of the rollers B. By this means the several sets of rollers are kept in position without

the use of grooves or guides.

*Claim.—First, the enlarging of the ends of the rollers C C' C C', so that the velocity of their peripheries shall be just sufficient to secure a rolling motion on the inside of the flanges D D'.

Second, the combination of the flanges D' D, and the enlarged ends of the spool from rollers C C' C C', to secure rolling motion by means of which the principal rollers B B' B", &c., are held in place, substantially as and for the purposes set forth.

No. 34,963.—W. H. HOYT, of Bethel, Conn.—Improved Hat Felting and Sixing Machine.—Patent dated April 15, 1862.—This invention consists in the employment of an adjustable endless apron, over a part of which is placed a feeding plate corrugated on its under surface, in connexion with a rotary pressing or rubbing cylinder. The cylinder is formed of a series of segment plates attached at one end by hinges to flanches, the journals of the shaft of which are fitted in the sides of the case. Each plate has a spiral spring bearing against its inner side for the purpose of keeping the plates pressed outward from the flanches. The hat body is subjected to the necessary friction and rubbing which is imparted to it intermit tingly, there being a cessation of pressure from the time one plate leaves it until the adjoining one comes in contact with it. Underneath the apron is a board or chute inclining from the rear to the front of the case to conduct off the hat body when pressed.

Claim.—First, the adjustable endless apron B, and pressure or feeding plate K, with a without roller Q, in connexion with a rubbing cylinder or rotary rubber S, arranged for joint

operation substantially as and for the purpose set forth.

Second, the peculiar construction of the rubbing cylinder or rotary rubber S as shown and described, to wit, having plates k of segment form hinged to flanches m, or their equivalent, on a rotary shaft, and acted upon by springs m in order to give the necessary pressure intermittingly to the hat body, as set forth.

Third, the combination of the inclined board or chute T, with the adjustable aprox B, rubbing cylinder or rotary rubber S, and pressure or feeding plate K, as and for the purpose

specified.

No. 34,964.—Henry C. Hutchinson, of Cayuga, N. Y.—Improvement in Lampt—Patent dated April 15, 1862.—Within or upon the central flue of the lamp is placed a perforated plate, which is designed to prevent a downward draught caused by raising or swinging the lamp.

Claim.—The device of a perforated guard or screen, to be placed upon or within the central flue of a kerosene lamp, by which the lamp is better enabled to hold the flame.

No. 34,965.—CHARLES T. JAMES, of Providence, R. I.—Improvement in Projection: Patent dated April 15, 1862.—This invention consists of a device by which spherical shells can be fired from a rifled cannon and a rotary motion imparted to them. The sabot is surrounded with a packing which is expanded into the grooves of the gun by the force of the explosion, and is fitted with a concavity for receiving the shell and a hinged bale for securing the shell therein; this concavity communicates by suitable holes passing through it with the charge of powder in the gun, so that, when fired, the fuse of the shell shall be ignited at the same time that the packing is expanded.

Claim.—A case for firing spherical shells, which case is formed with a cavity in the forward end for receiving and holding the shell, and provided with expansible packing on is periphery, to be expanded by the force of the discharge in combination with a hole or heles or equivalent passage through from the cavity for the shell, to and through the rear end, all substantially as and for the purpose described.

No. 34,966.—A. S. JONES, of Joliet, Ill.—Improved Millstone Pick.—Patent dated April 15, 1862.—The object of this invention is to obtain a head which will admit of very thin cutters being securely fastened therein. The cutters are inserted between the spring and lips of the head, the projection on the cutters resting in the recesses in the head so as to provent them from being forced backwards. The spring is then, by means of the screw and clamp brought against the cutters so as to secure them firmly, while at the same time by its elasticity, the cutters are prevented from working loose under the continuous blows of the hammer.

Claim.—The head B, having recesses b in the upper or outer surfaces of its lips a, the spring E, strap C, provided with the screw D, or its equivalent, and the cutters F provided with the projections A at their inner ends, all being combined and arranged substantially as

and for the purpose set forth.

No. 34,967.—George Jones, of Peckskill, N. Y.—Improved Window Sash Adjuster. Patent dated April 15, 1862.—This invention consists in attaching to gauges fastened to the sades of the sash metallic springs, which bear against the rods and hold the sashes firmly at any desired elevation. Digitized by GOOGIC

Claim.—The combined application of the curved metallic spring, rod, and gauge, constructed in grooves in the sides of the window sash, to the moving and adjusting of the sash within the frame, by means-of which both the upper and lower sash may be moved up and down in the frame at pleasure.

No. 34,968.—C. L. KELLING, of Mechanicsburg, Pa.—Improvement in Coffee Roasters.— Patent dated April 15, 1862.—This invention consists in a means of attaching legs to a cylindrical coffee roaster by which it can be raised from the hearth of an open fireplace. These legs slide through hasps attached to the sides of the roaster, and are provided at their upper extremities with flattened hooks, which being turned under, project on the side so as to support it. The enlarged rim around the bottom of the roaster is for the purpose of raising it from direct contact with the top of a stove when placed thereon, the ventilating passages causing a current of air which prevents overheating and burning of the coffee.

Claim.—The sliding legs s, in combination with the hasps a', projections t' Ω and cylinder

s, substantially in the manner and for the purpose specified.

Also, in combination with the cylinder or vessel a, and its bottom p, the enlarged rim q, having ventilating passages r therein, in the manner and for the purpose set forth.

No. 34,969.—SOLOMON KEPNER, of Pottstown, Pa.—Improvement in Paddle Wheels.— Patent dated April 15, 1862.—The main shaft has upon it a disk, and at a little distance therefrom, radial arms, which are connected to the disk by bars, between which the buckets are pivoted the pivots being nearer the disk than the arms, so that the buckets fall by their own weight into a vertical position. Attached to the sides of the disk are the gravitating latches, arranged as shown in the engraving, so as to retain the buckets in a horizontal position during its downward movement, but falling down when the buckets commence to ascend, and allowing them to assume the position in which they pass through the water, with the least resistance. The segmental cams secured to the sides of the vessel keep the latches down on the buckets until they reach the end of their downward movement.

Claim.—The combination of the pivoted buckets G G', latches I I', cam J, and pins H K

LM, arranged and operating in the manner and for the purposes set forth.

No. 34,970.—GEORGE F. KOLB, of Philadelphia, Pa.—Improvement in Camera Observes.—Patent dated April 15, 1862.—This invention consists in arranging in the upper part of a camera obscura, constructed with the eye tube opposite the lens, two reflectors, in such a manner that the objects reflected will appear to the observer right side uppermost.

Claim.—A box A of any suitable form with thelens tube B on one side and the eye tube

K on the opposite side, in combination with the two reflectors G and F, arranged in respect to each other and to the eye and lens tube substantially as and for the purpose set forth.

No. 34,971.—THOMAS S. LAMBERT, of Peekskill, N. Y.—Improved Military and Civic Bed Frame.—Patent dated April 15, 1862.—This invention consists of a portable bed frame having an elastic bottom of variable width, and provided with hinged leg supports and head rests, so that it can be used as a litter or stretcher in the field, as a slide in an ambulance of any width, as a hospital bed frame, or as a single bed in domestic use. The bottom is so constructed as to allow access to any part of the person of the occupant, and to east itself to any position of his body.

Claim.—First, the combination of the elastic bands x with the non-elastic bands P, sub-

stantially as set forth.

Second, the application of the buckles S, in combination with the bands, for the purpose of regulating their position and condition, substantially as set forth.

Third, the construction and application of the cross pieces B C, and the plates to which

they are attached, substantially as set forth.

Fourth, the mode of varying and fastening the head supports and legs in position, in combination with the frame, substantially as set forth.

Na. 34,972.—Geo. G. Lobdell, of Wilmington, Del.—Improvement in Cast Metal Car Metal.—Patent dated April 15, 1862.—The nature of this invention will be understood from the claim and engravings.

Claim.—First, securing the tire or rim B to the rim c of the wheel A by means of the bolts g passing through the rim c and the inner periphery of the tire or rim B, and having

holes i made in the sides of the tire or rim B to turn the nuts i, as set forth.

Second, counterbalancing the wheel by pouring metal, lead, or other suitable metal into the chamber e, when said metal counterbalance is used or employed with the braces f, arranged as set forth.

Third, the combination of the hollow wheel A and the hollow tire B, when both are constructed, arranged, and secured together, as and for the purpose set forth.

No. 34,973.—A. J. LUCKEY, of Bradford, Wis.—Improvement in Machines for Cutting the Bands of Grain Preparatory to Threshing.—Patent dated April 15, 1862.—This invention consists in enclosing the shaft of the metallic cutting disk, which is intended to sever the

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band of the sheaf before the grain passes to the threshing roller, within a tubular sleeve, for

the purpose of preventing the straws from winding around the shaft.

Claim.—The circular metallic disk C, having its periphery cut in the form shown and described, when used in combination with the tubular sleeve or guard B, in the manner and for the purposes set forth and described.

No. 34,974.—ALEXANDER MCFARLANE, of South Genesee, Wis.—Improved Device for Cutting Marshy Land .- Patent dated April 15, 1862. - This device consists of a V-sheet frame, the side bars of which are connected at their front and rear ends by cross-bar The ends of the side bars are provided with cylindrical tenons which fit into recesses at the ends of the cross-bars, and are secured by screws and nuts. Upon the outer sides of the side bars are secured in a vertical position the cutters C C. To the middle part of each of the content of the content of the cutters C C. the side bars is attached a cross-bar which can be secured to the main central beam by screw bolt and clip. These cross-bars can be raised and secured by a pin, when the six beams to which they are attached will be partially rotated and the cutters brought into a oblique position. The implement is used by first cutting the soil vertically in different directions at right angles with each other, and then passing it over the soil with the cure

adjusted to give the oblique cut.

Claim.—The oblique cutter bars b b, arranged substantially as shown, to admit of the sijusting of the cutters C in a vertical and in an oblique position, for the purpose set forth

No. 34,975.—A. McKissick, of Jordan, N. Y., and Chas. M. French, of Weedspot. N. Y.—Improved Machine for Renovating Feathers.—Patent dated April 15, 1862.—Steam admitted into the central steam tube from the steam eduction pipe, the valve on the care tube furthest from the entrance of the steam is closed, and thus the steam is caused to per through the perforated distributing cylinders into the chamber containing the feathers. The chamber is then rotated, so that the teathers are subjected to the action of the steam and effect ually cleansed. In order to dry the feathers the valves are opened, the close plug is n moved from the end of the central tube, through which a current of steam is made to pass heating and drying the feathers, and at the same time creating a draught outwards with removes all vapor from the vapor receiver. By means of the valves, in connexion with a plug of such a size as only partially closes the tube, the amount of steam passing three the tube can be regulated. The water of condensation is carried away by waste tube condensation. tending down from the steam tube.

Claim.—First, the combination of the rotating feather receiver A, of polygonal or other form, in combination with the central steem tube B, tubular journals C C', steam educing tubes G, provided with the perforated distributing cylinders H and the valves E E', amaged for joint operation, substantially as and for the purpose set forth.

Second, the tubular plug g, and close plug k, when used in connexion with the state B, and with or without the valves E E', for the purpose specified.

Third, the waste tubes F F, applied to the steam tube B, as shown, in relation with is feather receiver A, for the purpose set forth.

No. 34,976.—HENRY C. NICHOLSON, of Mount Washington, Ohio.—Improved Corn for Fruit Jars.—Patent dated April 15, 1862.—Around the neck of the jar is a groove benefit upon its upper side; from the cover of the jar, at equidistant points, depend ears, which the extremities on the under side, are provided with projections fitting in the groove. There ears are encircled by an adjustable broad ring, which when pushed down over the ears presses their projections against the chamfer of the groove, and thus draws the cover him! down on the rubber gasket placed upon the rim of the jar.

Claim.—The arrangement of bevelled neck B b, cover C, cars D d, ring F, and a suitable

gasket, the whole being combined and operating substantially as described.

No. 34,977.—Wm. Ostrander, Isaac D. Reeder, and Joseph Corduan, of Brookly. N. Y.—Improvement in the Construction of Ordnance.—Patent dated April 15, 1862.—The nature of this invention is explained by the claim, the object being to combine the greatest strength with the least amount of metal.

Claim.—Constructing a cannon by winding wire around a tube which has a breech piece inserted, and binding the whole together by casting metal upon it, in the manner and in

the purposes substantially as set forth.

No. 34,978.—ROSWELL L. PEABODY, of New York, N. Y.—Improvement in Watches-Patent duted April 15, 1862.—This invention consists, first, in the manner of imparting Ed tion to the balance-wheel from the escapement, by which means a longer are of vibrators given to the balance, and also an impulse in each direction. The lever arm is provided its extremity with two prongs, which alternately strike against a pin projecting from the roller, so as to impart to it a return throw; at the same time a pin placed on the lever at a same lime a pin placed on the lever at a same lime as pin placed on the lever at a same lime at a same lime at a same lime at a same lime at a same lime at a same lime at a same lime at a same lime at a same lime at a same lime at a same lime at a same lime at a same lime at a same lime at a same lim equal distance from the prongs, enters a notch made in the roller so as to give an impulse to the balance and cause it to complete its arc of vibration. The invention also cousins in the manner of securing the hair-spring, by which all the vibration in that part of the spring

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lying between the stud and the pin on the regulator, is prevented. The end of the spring passes through a cylindrical stud placed in a recess counter-sunk in the cock of the balance, and secured by another cock placed against the lower end in such a manner as to enable it to adapt itself to the position taken by the spring. The invention consists, further, in a construction of the shaft for the purpose of securing facility of repair and accuracy of adjustment, and in a method of setting the hands by which they can be set from the back, and the centre shaft is enabled to be made solid.

Claim.—The combination of the unlocking pin e with the prongs of the lever, and of the impulse pin d with the notches in the roller, in the manner and for the purposes substantially

Also, the manner of securing the hair-spring to the regulator by means of the fixed and slding pieces m and m, between which it may be firmly clamped, as set forth.

Also, the use or employment of the cylindrical and self-adjusting stud k, when said stud is secured upon the under side of the cock of the balance, in the manner substantially as

Also, constructing the staff by making it in two parts, upon one of which the roller, &c., is fitted, and upon the other the pins are turned, for the purposes and in the manner substantially as described.

Also, the supplementary shaft s, in combination with the gear of the centre shaft for setting

the hands, as set forth.

No. 34,979.—CHRISTIAN PETERS, of Wadsworth, Ohio.—Improvement in Shells for Ordnance.—Patent dated April 15, 1862.—This projectile is made of iron cast in the form of a bollow sphere, from all parts of the surface of which are bored radial chambers, which are charged with powder and ball, and communicate with the interior of the shell. A hollow rabber ball which is compressed and inserted through the fuse hole into the interior of the shell, is filled with powder, and communicates by a fuse with the powder filling the space between it and the inside surface of the cavity. An ordinary time fuse is inserted into the shell, by which, at the proper time, the balls are discharged from the chambers, and the inner fuse ignited immediately after the shell is exploded. This shell being more dense than those of the usual construction, can be projected further, and at the same time is doubly destructive.

Claim.—The described construction of ordnance projectiles, the same being charged with leaden bullets, as specified, and provided with an interior magazine of powder, by which the projectile itself is instantly exploded after the discharge of the bullets, as set forth.

No. 34,980.—ABIEL PEVEY, of Lowell, Mass.—Improvement in Casting Gas Retorts.—Patent dated April 15, 1862.—The nature of this invention consists in constructing the flask with trunnions at or near its centre of weight, and mounting it upon stands fixed to a truck frame, in order that the flask may have a revolving motion, which will enable it to make a complete revolution on its trunnions, and at the same time have locomotion by means of the truck on which it is mounted, so that the entire work of making and drying the mould, setting the core, pouring and removing the casting, may be performed while the flask is so

Claim.—The flask constructed as described, when combined with the carriage or truck and its arm J and brace L, pins K and O, or their equivalents, in the manner described, for giving all the required movements and positions to the flask, with the greatest ease and precision, for the purposes fully set forth.

No. 34,981 .- JAMES PLATT, of Utica, N. Y .- Improvement in Rotary Engines .- Patent dated April 15, 1862.—This invention relates to rotary engines in which the cylinder rotates about a stationary abutment head arranged within it, and it consists in an arrangement of induction and eduction pipes and passages to provide for the rotation of the engine in either direction.

The hollow stationary shaft which carries the stationary abutment head, contains three Passages extending nearly its whole length, two of which are induction and eduction pasiages leading to passages in the abutment lead which communicate with the steam way of the cylinder on opposite sides of the abutment. These eduction and induction passages have used attached to them one of two branches of the induction pipe, and one of two branches of the eduction pipe, the several branches being provided with separate cocks. By opening two of the cocks and closing the other two, the cylinder and shaft are caused to rotate in one direction, and on reversing the operation of the cocks, the cylinder and shaft will rotate in the opposite direction.

Claim.—The arrangement, in combination with the rotating cylinder, the stationary abutment head, and hollow stationary shaft E, of the two branched induction and eduction pipes (q, q') and (q, r, r'), and cocks (q, r', r'), communicating with the separate passages (q, r'), of the hollow stationary shaft, all substantially as and for the purpose set forth.

No. 34,982.—J. L. RACE, of Port Washington, Pa.—Improvement in Mode of Sustaining and Protecting Couplings of Shafting.—Patent dated April 15, 1862.—This machine is designed to protect the knuckles of the jointed shafts which are used in many machines, so as to prerent them from catching in the clothes of attendants. The coupling is placed within an inclined box, one end of which rests upon a slide at one end of the upright frame, the other upon a support at the other end of the frame at any desired height, by means of a pin passing through holes in the upright. The case can thus be adjusted to suit any degree of inclination

Claim.—The box B, fitted within the case A, and resting on the adjustable support i and slide h, all being combined and arranged substantially as and for the purpose set forth.

No. 34,983.—Geo. G. Ray, of Boston, Mass.—Improvement in Penholders.—Patent data!

April 15, 1862.—Around the lower part of an unclastic penholder is placed a ferrule or tab. of rubber, which forms an elastic rest for the fingers in using the pen.

To prevent the pen from coming in contact with the rubber, and owing to the chemical action induced by the ink adhering thereto, a metallic guard is inserted between the hard-

and the pen-supporter.

Claim.—The improved penholder as made with a metallic or non-elastic guard C, arrarged between the handle A, and the elastic or rubber pen supporter B, the whole being constructed and applied together as and for the purpose set forth.

No. 34,984.—Joseph Ridge, of Richmond, Ind.—Improvement in Coal-Oil Lamps.—Prent dated April 15, 1862.—This invention consists of a cylinder of mica, provided with perforated metallic bottom to admit air, and with a metallic rim at top and bottom. To the top rim is secured a diaphragm constructed of any transparent substance or highly polisted metal, and having in it a slot for the passage of the flame. A short chimney is secured: the upper metallic rim, and the whole device is fastened to the lamp, the wick tube passing through its centre.

Claim.—First, the mechanical device M, constructed substantially in the manner and f:

the purpose set forth.

Second, the disphragm D, made and applied as described.

Third, the combination of the device M, disphragm D, and short chimney C, constructed and arranged substantially in the manner shown in Fig. 1, and for the purpose described

No. 34,985.—HENRY C. SERGEANT, of Cincinnati, Ohio.—Improvement in Gas Replators.—Patent dated.April 15, 1862.—This invention consists in the arrangement of a surscrew, placed in one end of the key of the cock, so arranged that by turning it the opening in the key can be increased or diminished at pleasure, according to the amount of igs required.

Claim.—The application of an adjustable screw, placed in one end of the key of a recock, so arranged as to control the amount of opening in the key, as specified.

No. 34,986.—Wm. H. SEYMOUR and AARON PALMER, of Brockport, N. Y.—Improvement in Automatic Rakes for Harvesters .- Patent dated April 15, 1862 .- This invention const of a combination of devices by which a rake is made to traverse the platform in an arc of circle, being thrown up from the platform and securely held when traversing in one direction. and brought down upon it firmly when traversing in another; a very slight impulse being sufficient to disengage the rake from either position. On the end of the vibrating arm, when is operated by means of gearing and a pitman, is placed a stationary cam over which a religious placed between two arms supporting the rake head, is made to traverse, that motion bear facilitated by said roller having its bearing in two sleeves and supported upon the role ty spiral springs. By means of tripping levers, forming the extension of the rods, the yields roller is thrown from its seat on the cam when the rake head has moved forward, and the rake falls by its own weight, and remains down until the grain is discharged, when the ping lever causes the yielding roller to resume its seat and throws up the rake.

Claim.—First, the combination in an automatic rake, for a harvesting machine, of the fc.

lowing elements, viz: 1st, a post or standard capable of turning freely in its bearing.

2d, an arm secured rigidly to the post and capable of traversing only in a plane perpendenlar to it; 3d, a stationary cam on said arm; 4th, a rake head capable of revolving indivative around said arm in a plane perpendicular to it; 5th, a roller carried by the arm to which the rake head is attached and capable of yielding freely in its bearings to traverse over the stationary cam and hold the rake head in the proper position; 6th, a tripping lever upon the rod which carries the rake head; and, 7th, suitable stops or detents upon the front and rail of the platform, to raise and depress the rake at the proper moment, the whole operating sale

stantially in the manner described.

Second, The combination of the stationary cam A, upon the end of the vibrating are which carries the rake with the yielding roller i, upon the rake rod when operating substitially in the manner described, for the purpose of holding a rake head up during its forward movement, and of pressing it down firmly upon the grain when raking off.

Third, the combination of the stationary cam h, the yielding roller i, and the tripping in

I, substantially in the manner and for the purpose specified.

Fourth, the combination of the yielding roller i, with the rake rods I, as described, for the purpose set forth.

No. 34,937 .- CHRISTIAN SHARPS, of Philadelphia, Pa.-Improvement in Metallic Cartriges.—Patent dated April 15, 1862.—This invention relates to an improvement in the metallic cartridge used in the French fire-arms known as "Lefancheux's" revolver, which Las a pin or rod at the rear of the case, and in the interior a wad, in which is imbedded a cap to be exploded by the rod when the latter is struck by the hammer; and it consists in making the base of the casing so much stronger than other parts of the same that it will resist the shock to which it is subjected, and will retain its form after the discharge of the carnidge, the base being of sufficient thickness to allow for the formation therein of a hole for the reception of the detonating material, and the rod for exploding the same.

Claim.—The metallic cartridge case composed of the hollow cylinder A, with a base a, of such a strength as to effectually resist the shock to which it is subjected, and of such a thickness that an orifice may be formed in the solid metal of the base for the reception of the detensing compound, and a rod or wire for exploding the same, as set forth, for the purpose

No. 34,988.—John C. Smith, of Troy, N. Y.—Improvement in Sewing Machines.—Patent dated April 15, 1862.—The object of this invention is to effect the feeding of the cloth by means of the thread, simultaneously with the tightening and completion of the stitch, without the use of moving feeding plates pressing or gripping on the upper or lower surface of the cloth fed. Attached to one side of the cross-head, which has a horizontal reciprocating motion communicated to it by means of a rod attached to the driving wheel of the machine, are the fingers, which take the loop on the needle thread formed after the down stroke of the needs, deliver the thread to the toe of the stationary spool case, and at the same time open and enable the thread to slip between the toe and the stirrup, through which the toe passes; this motion secures the passage of the thread around the spool box, and enables it to complete the stitch in connexion with the under thread. Simultaneously with this, a cam stacked to the cross-head strikes against the arm p and through arm T, and gives to the ted bar a reciprocating movement transverse to the movement of the cross-head. This feed lar slides under the slotted sewing plate, and is provided with a slot through which the needle thread passes, and thus its reciprocating movement, at the same time that the stitch

is tightened, gives the desired feed movement to the cloth.

Chim.—The fingers R, stirrup v, spool box B', and spool W, in combination with feed bar arms T U p, cam τ on cross-head Q, needle f, and sewing plate C', arranged in the manner and operating for the purposes fully described and shown.

No. 34,989.—John E. Smith, of New York, N. Y.—Improvement in Electro-Magnetic Idegraph.—Patent dated April 15, 1862.—The armature of the sounder magnet is attached to one end of a lever balanced by means of a centre shaft and bearing screws, between two upright standards; to the other end of the lever is attached the armature of the second mag-Let. This magnet is connected with a branch of the local circuit, in such a manner that then the armature of the relay magnet recoils, it comes in contact with a screw head, so as **Cause a completion of the circuit, thereby operating the magnet, and causing its armature be attracted. By this arrangement the lever is caused to strike alternately upon the string screws as the circuit is opened and closed. The spring, which is usually made to all opposition to the sounding magnet, is dispensed with, and a great saving of battery rater is thus effected.

Claim.—The employment, in combination with the lever C, of the sounder or register of a send electro-magnet F F, which is brought into action by the recoil of the armature of the by magnet, substantially as and for the purpose specified.

34,990.—James Spear, of Philadelphia, Pa.—Improvement in Cooking Stoves and ¹ Patent dated April 15, 1862.—This invention consists in placing under the hearth was ordinary cooking stove a removable box, over which is placed a frame provided with a sob sieve, and having a longitudinal vibratory motion.

'leis...The combination of the ash sieve A, drawer B, box C, with the removable frame D when applied to the hearth of a stove, and constructed to operate substantially as de-

No. 34,991.—C. D. Stevens, of Mendota, Ill.—Improvement in Apparatus for Evaporating Succharine Juices.—Patent dated April 15, 1862.—This invention consists in placing to boiling and evaporating pans over and in a higher plane than the steam-boiler from Nich steam is conducted under the pans, so that the water of condensation may be returned with boiler.

Clsim.—The arrangement and construction of the boiling and evaporating pans in relation to the steam boiler C, substantially in the manner described.

50. 31,992. J. W. SYKES, of Chicago, Ill. Improvement in Floating Grain Elevators and Dryers.—Patent dated April 15, 1862.—The nature of this invention is explained by the

1 term.—Combining with an elevating apparatus arranged upon a scow or other floating of H. Ex. Doc. 54-19

vessel, an interposed drying apparatus (Wheeler's patent of October 23, 1860, or any other,) the whole forming a floating grain dryer and elevator capable of transferring grain from one vessel to another, or from a vessel to a storehouse, or vice versa, and of drying the grain floated from one locality to another as may be required, for the purpose of elevating and drying the grain.

No. 34,993.—A. C. TWINING, of New Haven, Conn.—Improvement in Apparatus for Making Ice.—Patent dated April 15, 1862.—Within a cylinder, which is filled with a soluter capable of being cooled down to a low degree of temperature without freezing, is placed a series of pipes opening at the top and bottom into tight compartments, which are connected with two pumps, one acting as an evaporator, the other to remove the unevaporated liquid. Into the upper compartment is introduced, by means of a pipe, a volatile liquid capable a producing, when evaporated, a low degree of cold air, which flows through the pipes and the cools the solution in the exterior vessel. This cooled solution is made to circulate through large vat, in which are placed vessels containing the liquid to be frozen. The vat is distinguished the vessels, and the pipes which conduct and remove the freezing liquid, communicate with the vats by branch pipes placed at intervals along its sides, and provided who cocks. By this arrangement the place of entrance of the freezing liquid can be shitted different parts of the vat, so that all the vessels of liquid therein shall be subjected in unit the freezing liquid when at its lowest temperature.

Claim.—First, the combination of the following four things, or any combination subsatially the same, viz: the cooling vessels B B t t F F; the exterior liquid in A A A, coord; contact with the preceding, as above; the pump C, or other equivalent means, by which is said liquid leaves A A and returns; also, a containing vessel or vessels in which or was whose contents said liquid is to perform its congealing or refrigerating work.

Second, the employment in combination of a freezing liquid shifted progressively by means of a hose or by pipes, valves, or cocks, substantially as described, from one part to another a trough or vat with freezing vessels contained therein, so as to create substantially with a denominated the progressive circuit of cold currents; also, the vat, with its troughs, prevalves, and cocks, such as may be necessary, or any combination or construction substantially the same for effecting that circuit.

Third, the following four parts, in combination, for a generator B B t t F F of cold. In the opening or pipe S for introducing the liquid or solution, from which vapor or gas in expand and produce the cold; the pipes, or narrow compartments t t, down which the cold is to flow by gravity in thin sheets of liquid; the lower compartment F F opening with pump D, for removing residuum, and the exterior liquid in A A A cooled and made to compare liquid in the late, all substantially as described.

No. 34,934.—ALLEN WALTON, of Philadelphia, Pa.—Improvement in Apparatus for Music Gases.—Patent dated April 15, 1862.—This invention is designed as an improvement upon meter for which a patent was granted to James Cutchett, in England, on July 12, 1862, which a definite quantity of air is mixed with a definite quantity of gas, and consists in cobining with the meter a chamber, into which both air and gas are admitted and initial mixed prior to being discharged into the distributing pipes, by which thorough and complete admixture of air with the gas, the flame is rendered unvarying and of uniform brilliance.

admixture of air with the gas, the flame is rendered unvarying and of uniform brilliancy.

Claim.—Combining a chamber, or reservoir A, with Cutchett's patent gas meter, the standard chamber being so situated that both the air and gas must pass into and be mixed intimated together in the said chamber prior to escaping to the distributing pipes.

No. 34,995.—W. A. Wood, of Hoosick Falls, N. Y.—Improvement in Harvesters.—Falls dated April 15, 1862.—On the stubble side of the shoe is a recess, into which is fitted the case of the extension bar, the finger bar being placed over the same. A screw provided when washer and nut, passes through the shoe and finger bar and secures them firmly testing. The main axle passes through the sleeve of the tongue plate, and the seat is fixed to the sake.

Claim. —Uniting the extension bar to the shoe by means of a socket and pin, so as to united the finger bar, that is also united to said shoe, substantially as described.

Also, the tengue plate T, provided with a sleeve k and sockets l l, or seat supports each one piece, as described and represented, and for the purpose stated.

No. 34,996.—R. V. DE GUNON, of Hudson, N. Y., and G. W. BARCLAY, of Broklin N. Y., assignors to J. A. NEWBOULD, of New York, N. Y.—Improvement in Presset.—I'm added April 15, 1862.—The nature of this invention consists in making a press with varial adjustable motions, and so arranged that the plungers have an alternate reciprocating the plates, being cut by one die, pass through the same, and are then moved by measurement to the second die, where they are bent or stamped as required. The cam for mount device is so constructed and arranged that time is allowed at each end of its motion article cut to drop into the blank carrier when it moves forward; and after the complete its motion in the reverse direction, it remains stationary until the article is best, or. 2 to

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rticle is to be stamped, until the impression is made. When the cutting punch recedes from e die, the feed rollers move forward and draw the strip of metal the proper distance for the ext cutting; this distance can be graduated to the one-sixtieth part of an inch, if desirable, s means of jam nuts and the levers.

Claim.—First, the bending device, figure 10, the shank 8 being made fast in the plunger D', gure 2, by means of the pin 12, and having a spiral spring 3, or its equivalent, working on ad around the shank of the fixed bender 8, and pressing against the bottom of the plunger D' keep the movable part of the bender E E parallel to the bottom of the fixed bender 8, except her bending the middle of the blank, and working in combination with the blank carrier F

ad bending bar H, as substantially set forth.

Second, the bending bar H and blank carrier F working simultaneously with each other ad in combination with the bending die 19, the whole being constructed and arranged and

perated as substantially described.

Third, the air chamber 41 in the bolster A, figures 13 and 17, the small holes 42 being drilled brough the partition 17, for the purpose of drawing the blank down upon the said partition y means of an exhaust pump, or its equivalent, as specified.

No. 34,997.—D. R. FRASER, of Chicago, Ill., assignor to Himself, P. W. GATES, and HOULS CHALMERS, of the same place.—Improvement in Valves for Steam Engines.—Patent ared April 15, 1862.—The use of the pendulous balance-block enables the valve to work tarly on a balance, the pressure of the steam above the enclosed part of the platform of the sive being borne by the balance-block. The spherical seat upon the bolt allows free motion the block, but the springs and pin keep it in proper position. The weight of the packing ame causes it to press down upon the valve, so that the joints are kept steam-tight. The edge acts to take up the slack, a slot being provided in it so, that by loosening the nuts the wige can be lowered and the slack taken up.

Claim.—First, the combination and arrangement of the suspended and universally-moving ance-block E, gravitating frame or packing D D, and platform C of slide valve, substan-in the manner and for the purposes described.

Second, the vertical bolt F, with spherical seat on its lower end for suspending the balan ing mechanism of the valve, substantially in the manner and for the purpose described. land, the combination of the vertical pins I, with spherical ends, and the bolt F F', and

alancing mechanism, substantially in the manner described.

Fourth, the combination of the springs, bolt F F', pins I, and balancing mechanism, sublantially in the manner and for the purpose described.

Fith, the combination of the slotted wedge J, inclined projection K, connecting arm M, ming nuts c c, and valve B, substantially in the manner and for the purpose described.

No. 24,998.—F. N. FROST, of New Britain, Conn., assignor to Himself and HENRY luxing, of the same place.—Improvement in Coal Sisters.—Patent dated April 15, 1862. his invention consists in constructing the door and its hinge or pivot-joint in such a manner at it will close the discharge opening while the coal is being sifted in an ordinary wire pander, after which, the upper end of the door being pulled forward and turned down below wincrum pin at an angle, and then slid up against the back of the box, so as to completely

over the ash drawer and conduct the coal into any desired receptacle. Claim.—The fulcrum guide n s, door o, in combination with a sifter i, substantially in the

Littler and for the purpose described.

No. 34,999.—A. S. HARDING, of Mount Hope, N. Y., assignor to Himself and A. S. DODGE, An same place. - Improvement in Machines for Raking and Binding Grain .- Patent dated 15, 1502.—This device is designed to gather up from the swath of grain, the proper l'antity to form a sheaf, using straw or its equivalent for the band, the entire operations of the language of the cut grain and forming it into a complete sheaf being performed by the day him. The device may be used as a distinct machine, or it may be attached to any reap-Amachine; and when so attached, the grain will be taken from the bed or platform of the alet, upon which the rake of the reaper has placed it.

Claim.—First, the rotating rake for gathering up and presenting the grain to the clamp, in the clamp, when they are constructed and operated substantially as

end, the combination of means recited, or their equivalents, for seizing the straw to in the band from the box, and passing it around the grain in the clamp.

Third, the combination of means, or their equivalents, for forming the band and securing "a ound the grain in the clamp and completing the sheaf, substantially as set forth. Fourth, the arrangement of the lever c'', the side rod f'', and the plate h'', having the har g' for holding the rake's shaft, as and for the purpose described.

No. 35,000.—John Magee, of Chelsea, Mass., assignor to Norton Furnace Company, Norton, Mass. - Improvement in Cooking Stores. - Patent dated April 15, 1862. - The front the of the oven is inclined in such a manner as to form a chute, which extends under the die and hearth, and serves to conduct ashes falling from the grate into a receptacle placed within the ash chamber. By this arrangement the size of the oven is increased and ashes are

prevented from collecting against its front part.

Claim.—The peculiar arrangement of the ash chamber and the oven chute with reference to the hearth, the horizontal grate and the oven, the said ash chamber being constructed with an opening, and such opening being provided with one or more doors, all substantially as specified and represented.

No. 35,001.—J. L. Jones, of St. Louis, Mo., assignor to Himself and W. D. Porter, United States navy .- Improved Defensive Armor for Water and Land Batteries .- Patent dated April 15, 1862.—The claim and engraving explain the nature of this invention.

Claim.—First, metallic plates, as the defensive armor of ships and land batteries, when the

plates have a flange at the edges and have intermediate flanges, and when the plates are applied in two or more tiers or thicknesses, so as to form recesses between them, also when the plates otherwise are constructed and applied substantially as and for the purposes set forth.

Second, the combination of armor plates which have a flange at each edge, and intermediate flanges, and are applied as described, with divided clastic cushions, substantially in the manner

and for the purpose set forth.

Third, the combination of two or more tiers of angle plates constructed and applied as described, with intermediate cushions E, and foundation cushions D, substantially in the

manner and for the purpose set forth.

Fourth, the combination of elastic washer cushions c, bolts F, angle plates A B, constructed and applied as described, cushions E, and casemate or side of a vessel, substantially as and for the purpose described.

No. 35,002.—JOSEPH SHORT, of Salem, Mass., assignor to Charles Short, of the same place.—Improved Sting for carrying Blankets and Overcoats.—Patent dated April 15, 1862.— This invention consists of an arrangement of straps by which an overcoat or blanket, when rolled into a compact form, can be sustained just above the small of the back, in a manner easy to the wearer and without constraint to the muscles of the chest and shoulders.

Claim.—As a new article of manufacture, the officer's overcoat and blanket sling, as and

for the purpose described.

No. 35,003.—H. D. WALCOTT, of Boston, Mass. assignor to HORACE WILLIAMS, of Brook line, Mass.—Improvement in Eyelet Machines.—Patent dated April 15, 1862.—This invention consists of a combination of an eyelet punch and set, in one device, so that either can be used as desired. Owing to its peculiar construction, the strain is brought directly into a line passing through the middle of the pivot of the pincers, and thus all lateral strain is avoided. Pivoted on the under surface of the upper jaw E, a piece E, which has at one end a punch for making the holes in the material, and at the other end a die for setting in the eyelet. These parts are at different distances from the pivot, so that when the piece is turned on the pivot, end for end. the die end shall fall on different parts of the lower jaw adapted to receive the punch and set The piece I, is retained in position by a stop which passes through the upper jaw, and is held down by a spring fastened on the outside of the jaw, but which can be lifted by a thumb piece V. Claim.—The described improved eyelet set and punch combined in the piece E, being so

pivoted to the jaw C, that when it is revolved the punch d, and die f, attached thereto, will fall on different parts of the jaw D, substantially as set forth.

No. 35,004.—J. O. WHITCOMB, of Brooklyn, N. Y, assignor to JOSEPH DODIN, of New York, N. Y.—Improvement in Sewing Needle Cases.—Patent dated April 15, 1862.—The object of this invention is to arrange needles in a case so that a single needle of any desired size may at pleasure be extracted from the case one at a time, by simply inverting it and turning a plate which is attached to the bottom of the case, so that the notches will coincide with the compartment which contains the needle of the required size. By holding the case sideways the needles will fall to one side, and then by holding it upright a single needle will pass out

Claim.—A needle case having a graduated series of compartments, substantially as described. Also, in combination therewith, the plate Fig. 3, attached to the bottom of the case, and turning on the common centre m, and having the notch e, substantially as described.

No. 35,005.—E. H. WILLIAMS, of Clermont, Iowa, and D. R. W. WILLIAMS, of Werner, Wis., assignors to said E. H. WILLIAMS.—Improvement in Excavating, Ploughing, and Grading Machines.—Patent dated April 15, 1862.—This invention does not admit of a brief description; its nature will be understood from the claim.

Claim.—First, constructing the endless belts I M O, of a series of metallic plates o, connected together by joints formed of eyes p, which interlock into each other and are so swaged or formed as to receive their pins q at the inner sides of the belt, whereby the enter surfaces of the plates will be flush with each other, and projections formed at the inner side of the belts. to mesh into toothed pulleys or wheels which are driven by the belts or by which the belts

are driven, sustantially as shown and described.

Second, the combination of the adjustable part D, of the frame of the machine, with the adjustable caster-wheel E, and adjustable plough F, all arranged substantially as shown and described, for the purpose of insuring a steady movement of the plough at any angle or degree of inclination in which it may work.

Third, the wheel H, provided with two annular colters l, and two or more annular bars m, in connexion with the endless belt I, and endless pressure belt M, arranged in relation with each other and the plough F, to operate as and for the purpose specified.

with each other and the plough F, to operate as and for the purpose specified.

Fourth, Providing the plough F with a yielding or elastic mold-board i, attached to the upper end of the share d, and arranged in relation with the belts I M, to operate as and for the pur-

pose set forth.

Fifth, the combination of the chains J J h' h', connected to springs, and arranged substantially as shown, for the purpose of driving or operating the pressure-belt M from the belt I, and preventing the belt M from being subjected to any undue pressure against the ascending size of earth, while the chains J J are kept sufficiently taut to insure the perfect operation of the belt M.

Sixth, the employment of the laterally-adjustable rotating colters T, and shares U, arranged and applied to the part D, of the frame of the machine, and used in connexion with the wheel A, belts I M, and plough F, as and for the purpose set forth.

Seventh, the adjustable discharging spout P, attached to the upper part of the part A, of the frame of the machine, and in relation with the discharge end of the belt O, as and for the

purpose described.

Eighth, the rotary bester, formed of the rotating shaft s', and besters u', arranged in relation

with the belt O to operate as and for the purpose set forth.

Ninth, the combination of two endless belts I M, when arranged relatively with each other, a wheel H, without the colters l l, and a plough F, so as to serve as elevators to carry up the slice of earth as it is cut by the plough.

Tenth, the employment or use of a wheel H, provided with annular colters l, when so arranged as to perforn the double function of a rotary-colter and a driving-wheel for operating the endless belt or belts and other working parts of an excavating machine.

No. 35,006.—Suspended.

No. 35,007.—ABEL BREAR, of Saugatuck, Conn.—Improved Apparatus for discharging liquids from Kettles and other Vessels.—Patent dated April 15, 1862.—This invention consists in the attachment of the covers and discharge pipe of the boiler to the main pipe which supplies steam or compressed air above the surface of the liquid in the vessel, by means of hollow arms or branch pipes, the connexion of the said branch pipes with the main pipe being of such a character as to permit the opening and closing of the cover without disconnecting it from the main pipe or disturbing its connexion therewith.

Claim.—The combination of the movable cover B, and discharge pipe C, with a steam or air pipe D, by means of one or more hollow connecting arms or branch pipes E E, in such manner as to effect the discharge of the vessel to which the cover is fitted by means of steam or compressed air admitted to the said vessel from the said pipe D, through the said hollow

connecting arms or branch pipes, substantially as specified.

No. 35,008.—O. W. BAYLEY, of Somerville, Mass.—Improvement in Breech Loading Fire-erms.—Patent dated April 22, 1862.—Within a movable or swinging breech piece is fitted a sliding cylinder which is closed at its rear end to form a chamber for the reception of the charge. Through the rear end of the breech piece passes a screw provided with a thumb piece or handle, and made to press against the end of the sliding cylinder so as to cause the outer end of the latter to bind firmly against shoulders on the inner end of the barrel for the purpose of preventing the escape of gas when the gun is discharged, and also to compensate of the breech ping.

in the wear of the breech plug.

Claim.—The combination of the breech piece D, with the cylinder E, which is moved forward after the breech piece is in place, to tighten the joint at the rear end of the barrel, sub

stantially in the manner described.

No. 35,009.—J. B. BOWEN, and J. E. BARKER, of Madison, Wis.—Improvement in Hartesters.—Patent dated April 22, 1862.—The rake head is supported on two arms which extend from and turn on the rake carrier, so as to give the rake a vertical reciprocating movement, to enable it in its return movement to be elevated clear of the platform. The rake carrier, which has a reciprocating horizontal movement on a vertical pivot, does not project for enough over the platform to offer any impediment to the falling grain. By means of a stop on the frame, striking against the cam projection, or one of the arms of the rake after the campletion of its backward movement, the rake is elevated and held in that position by means of a spring catch on a lever pivoted to the carrier, catching in a notch on the wrist of one of the arms. This catch is released by the lower arm of the lever striking against a stop on the arm R, which is pivoted to the frame, and is connected by a lever to a rod extending within reach of the driver, so as to enable him to move the lever without effecting the dis engagement of the rake, and thus stop the raking.

Claim.—The combination of the two projecting arms E E, of the rake head, the rake carrier G, and vertical pivot H, stationary on the frame of the machine, the rake hinging

around the rake carrier, and the rake carrier hinged around the pivot, when the rake carrier is so constructed and situated as not to extend over the platform, substantially as and for the purpose specified.

Also, the combination of the arm R, which bears the stop Q, with the lever S and rod l,

arranged substantially as and for the purpose specified.

No. 35,010.—C. P. BROCKETT, of New Haven, Conn.—Improved Lamp Burner.—Patent dated April 22, 1862.—This invention consists in attaching the cone or deflector of the burner to a plate which is connected to the top of the burner by a pivot, so that the plate may be turned horizontally on and off from the burner, thereby rendering the wick tube accessible for the purpose of trimming and lighting the wick, and placing the same in the tube without detaching the chimney from the burner. In order that the lamp may be supplied with oil without detaching the burner from the lamp, a tube is fitted in the burner.

Claim.—First, the plate F, with cone G attached, pivoted to the plate E at the top of the burner, provided with a catch H, and arranged relatively with the wick tube B to admit of the plate F, with chimney attached, being shoved off from and on the burner for the purpose

pecified.

Second, the tube stopper h attached to the under side of the plate F, in combination with the cross-bar i secured to the plate E, and in such relation with plate F and cone G as to elevate plate F and stopper h, and admit of said stopper being raised out of and fitted in tube C by the movement of plate F, as set forth.

Third, the tube C, fitted in the burner A, in connexion with the movable plate F, arranged substantially as shown, to cover the tube when the burner is in use and the lamp lighted, and to expose the tube for filling the lamp when the plate F is shoved off from the burner.

No. 35,011.—Welliam Burgyes, of Chelsea, Mass.—Improvement in Sweat Bands for Hats.—Patent dated April 22, 1862.—On the outer surface of the ordinary elastic lining, which is arranged to have an air space between it and the body of the hat, is fastened an unclastic band. By this device the lining is caused to retain its proper shape, and the hatis also rendered more comfortable to the wearer.

Clsim.—The described arrangement and combination of the unclastic and flexible hand s with the head lining b and the air space d, arranged between the hat body and head lining.

and for the purpose as set forth.

No. 35,012.—HIRAM CLARK, of Rochester, N. Y.—Improvement in Skates.—Patent dated April 22, 1862.—This invention consists in the employment of wooden foot pieces, which are bent by steaming or boiling, so that they will be rendered lighter and shorter at the point than when they are curved by cutting the wood across the grain, thus effecting a saving of time and material in their construction.

Claim.—The employment in skates of bent (by steaming or boiling) wooden foot pieces.

for the purposes set forth.

No. 35,013.—W. R. CUNNINGHAM, of Brooklyn, Ohio.—Improvement in Water Electors.—Patent dated April 22, 1862.—The springs 8 are adjusted under a sliding bearing in such a manner that when the bucket is full of water, its pressure upon the windlass is sufficient to compress the springs, and thereby bring the periphery of the flange of the windlass from out of contact with the friction rubber placed on a projecting arm above. But when the water has been discharged, the expansion of the springs brings the flange against the rubber and prevents the bucket from descending too rapidly. The velocity of the bucket in its descent is rendered uniform and the acceleration counteracted by the arrangement of the springs, which, when the bucket commences its descent, support the weight of the bucket and rope, but as the rope is unwound expand, thus causing the flange of the arle to bear against the friction rubber with a constantly increasing pressure.

Claim.—The self-regulating brake, composed of the springs 8 8 8, the sliding journal box 7, the rubber 11, used in connexion with the friction flange 10, the whole being constructed

substantially in the manner and for the purpose specified.

No. 35,014.—G. W. DECHANT, of Berrysburg, Pa.—Improved Rotating Meat Chopper.—Patent dated April 22, 1862.—The radial cogs on the main cog-wheel are much less in num ber than the cogs on the block j, by which means the block is allowed periods of rest during its rotation, at which time the knives are in motion. After each interval of rest, a slight rotation is given to the block by means of the cog, and another portion of meat brought under the action of the knives.

Claim.—Moving the block A intermittently by means of the cogs j on the block A, and the radial cogs I" on the face of the cog-wheel I, in combination with the cutters C E,

when these parts are arranged and operated as set forth.

No. 35,015.—F. W. DEXTER, of Randolph, N. Y.—Improvement in Box Setters for Wheel Hubs.—Patent dated April 22, 1862.—The small end of the hub being set in the conshaped mortise of the cone piece, the head piece is brought down upon the square and of the

hub, and the nuts turned so as to clamp and hold the hub firmly. The hub is kept in a perpendicular position by being set in the mortise, whose conical shape adapts it equally to hubs of different sizes.

Claim.-A clamp for holding the hub for boring, consisting of the head piece A, cone piece B, screw rods C, and nuts D, substantially as described.

No. 35,016.—WILLIAM ELLMAKER and C. HURST, of Earl Township, Pa.—Improvement in Carriage Brake.—Patent dated April 22, 1862.—The hinged lever is attached by one end to the cross-piece between the shalts, and has upon its extremity the brake block. The part A' of the lever bears in the step staple upon the shaft. The lever is connected to a spring and rod upon the shaft. On the vehicle going down hill the action of the backing strap, or an eye on the spring rod, presses the rubber against the wheel, the action of the wheel keeping the rubber down. In backing, the rubbers are forced against the wheels, and then raised into the upper step of the staple, and are thus thrown out of the way of the wheel. When the forward motion is made, the lever falls into the lower step, where it is held firmly and rattling prevented.

Claim.—The arrangement of the jointed lever A B, the step staple a b, and the jointed

rod F, combined and operated substantially as set forth for the purpose specified.

No. 35,017.-J. O'FARRELL, of New York, N. Y.-Improvement in Wheel Vehicles.-Patent dated April 22, 1862.—One of the slides which is connected to the upper part of the axis moves on a shaft at right angles to the perch, and is fastened to arms extending out from the bolster; the other slide is also connected to the axle by an arm which moves on a shaft parallel to the perch. By this device when the vehicle is turned the slide D moves either to the right or left, and the ring bolt on which the axle turns, and which is the pin securing the slide G to the curved piece L, moves forward, thus enabling the vehicle to be turned in a small space, and at the same time allows the front and rear axles to be placed

near together without any danger of their coming in contact when the wheels are turned.

Claim.—The connecting of front axle F to the perch or reach B by means of the two slides E G placed respectively on the shafts D H, and connected with the axle F, substantially as shown, for the purpose set forth.

No. 35,018.—HOWARD GILL, of Dedham, Mass.—Improved Folding Bedstead.—Patent dated April 22, 1862.—The leaves attached by hinges to the under side of that part of the bedstead which when it is folded comes uppermost, allows the piece of furniture to be used as a table, the leaves being unfolded and retained by a proper support. Under the part H is placed the trundle bed, which is simply a rectangular box provided with slats, and which may be drawn out when desired for use.

Claim.—The bedstead A, formed of two parts B C connected by hinges, and provided respectively with an adjustable headboard s and a fixed footboard h, in connexion with the foding or hinged leaves i j attached to the bottom d of the part C of the bedstead, as and

for the purpose set forth.

Further, the combination of the folding bedstead A, leaves i j, and trundle bed D, ar-

ranged as set forth.

No. 35,019.—W. W. GOULD, of Skowhegan, Maine.—Improvement in Vent Holes for Ordnance.—Patent dated April 22, 1862.—This invention relates to an improvement in the vent of fire-arms. The object of the two obliquely arranged tubes, is to convey the fire to two points in the charge, and thus insure its more perfect combustion and increase the force of the discharge.

Claim.—The combination of the two obliquely arranged flanged tubes B B', having their flanges bevelled as shown at e, and the covering plate D having an aperture i, the whole ar-

ranged and operating substantially as and for the purpose set forth.

No. 35,020.—JEREMIAH HALL, of Granville, Ohio.—Improvement in Reaction Car Brakes.—Patent dated April 22, 1852.—In this invention the rotation of one of the axles is communicated by means of the engagement of a pawl and ratchet wheels to rotating drums on which are wound chains connected to a series of springs, so that when it is desired to stop the car, its momentum will be taken up by them. When it is desired to start the car, the expension of the springs is made to impart an impetus to the rotation of the axle. When the momentum of the car is too great to be all taken up by the spring an ordinary friction brake is brought against the rear wheels.

Claim.—First, the combination with a railroad car axle of the sleeve E, the ratchet wheels D I', and the drum wheels F F' and pawls I I', substantially as described.

Second, the combination of the springs R with the drum wheels F F', the pulleys W W',

and chains H H' H", substantially as described.

Third, the combination of the treadle or foot lever M M, levers X X', and their connecting chain and rod, in combination with the stop S S', and for the purpose as substantially described.

Fourth, the combination of the reaction car brake, as claimed, with the friction car brake P and chain O, as described. Digitized by Google No. 35,021.—N. D. HARTLEY and M. S. MOREHOUSE, of Quincy, Ill.—Improvement is Coffee Pots.—Patent dated April 22, 1862.—The coffee is introduced into the bottom of the inner vessel and rests upon the strainer, and is thus exposed to the action of the water in the coffee pot. The steam from the pipe H passes into the vessel and is there condensed. The pipe J conducts surplus steam into the upper chamber and prevents the lid of the inner vessel from being removed by the pressure.

Claim.—As an improved article of manufacture, a coffee pot provided with pipes J H, chamber G, vessel D, strainer E, and box F, and otherwise made as shown and described.

No. 35,022.—J. H. HASCALL, of Corunna, Mich.—Improved Medicine for Miasmatic Diseases.—Patent dated April 22, 1862.—The material used in this invention is the bark of the white or black ash, from which either a tincture or solid extract is prepared, to be used in miasmatic fevers.

Claim.—The composition made of the material, substantially as described and for the purpose set forth.

No. 35,023.—A. C. Hoag, of Clinton, Ill.—Improved Broom.—Patent dated April 22, 1862.—The oval plates which are attached to the handle are connected together by rives and screw bolts. Broom corn is inserted between these plates, which are then screwed firmly together so as to hold the broom securely. By this means a durable broom is obtained which, when desired, can easily be detached from the handle.

Claim.—The method of fastening brooms to the handles thereof by means of the plates C and D, connected by the rivets b c and the screw bolts a, constructed and operating sub-

stantially as set forth.

No. 35,024.—JASPER HOOPES, of Philadelphia, Pa.—Improved Car Trucks.—Patent dated April 22, 1862.—The object of this invention is the construction of the car truck in such a manner as to facilitate the turning of curves, so as to avoid the wear of both rails and running gear. The invention does not admit of a brief description.

Claim.—The combination of the plates E E, semicircular projections F F, frame G, bands f, bar H, and guides g, with the axles B C C, in the manner and for the purpose shown and

described.

No. 35,025.—Shelden Hull, of Oxford, Conn.—Improved Washing Machine.—Patent dated April 22, 1862.—By the vibration of the swinging bar, the plungers are caused to rise and fall alternately upon the clothes, thus compressing them in the suds, while at the same time, the obliquity of the lower edge of the plates of one of the flanges gives a rotary motion to the clothes, causing fresh surfaces to be acted upon successively.

Claim.—The V-shaped box A, in combination with the swinging bar E and the plungers G G', attached thereto and working on the inclined ends f of the box, substantially as and

for the purpose set forth.

Further, constructing the plungers G G' of a series of parallel plates or strips c, the plates or strips c of one plunger G having their lower edges at right angles, with the end f on the box on which their plunger works, and the plates or strips c of the other plunger G', having their lower edges forming an acute angle with the end f on the box on which their plunger works, substantially as and for the purpose specified.

No. 35,026.—Lucinda Humphrey, of Tipton, Iowa.—Improvement in Skirt Protectors.—Patent dated April 22, 1862.—This invention consists in the employment of a strip of oiled silk or muslin attached by means of steel hooks to the bottom of the petiticat, and which is of sufficient width to double over the lower edge of the skirt and extend up some distance on its upper and lower surface. It is worn under the skirt when not needed, but in wet weather the dress can be tucked into the oiled silk, and thus an efficient protection be obtained.

Claim.—A skirt protector made substantially as described and of any water-proof material,

in combination with the lower portion of the petticoat.

No. 35,027.—M. J. Knox, of Knox Corners, N. J.—Improved Clothes Frame.—Patent dated April 22, 1862.—This invention consists in attaching supplemental frames to the opposite sides and near the top of a main frame, whereby its capacity is nearly doubled, and at the same time the frame occupies, when standing or folded up, but little more room than the main frame alone.

Claim.—A clothes frame composed of the three conjoined, but independent and separable frames A B F G with arms J, constructed, combined, and operating as shown and described.

No. 35,028.—T. S. LAMBERT, of Peekskill, N. Y.—Improvement in Shirts.—Patent dated April 22, 1862.—The nature of this invention will be understood from the claim and engraving. Claim.—A shirt with the bosom detached from the body at both sides. a part of the length

Claim.—A shirt with the bosom detached from the body at both sides, a part of the length downward from the upper extremity of the bosom and opening and closing as a flap, the shirt body and being open in front beneath the bosom, the band of the shirt and the band of the bosom either or both being kept in place by elastic bands or cords, the whole substantially as set forth.

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No. 35,029.—W. A. LIGHTHALL, of New York, N. Y.—Improvement in Portable Water Condensers.—Patent dated April 22, 1862.—This invention is designed as an improvement pon the patent granted to said Lighthall, December 17, 1861, and it consists in combining he condenser with a series of tubes placed beneath the drip plate, for the purpose of cooling he condensed water after passing through the drip plate into the pipe reservoir, prior to its eing conducted to the tank or other receptacle, placed so as to receive it.

Claim.—The combination with the drip reservoir A and dip plate E, of the series of cooling ubes B, arranged and operated as and for the purpose set forth.

No. 35,030.-J. W. LYON, of Brooklyn, N. Y.-Improvement in Padlocks.-Patent dated April 22, 1862.—The first part of this invention will be understood from the claim. The pin ipon the projecting part of the shackle is so arranged that it will not fit the groove in the dog, and thus allow the movement of the shackle, unless the tumbler has been moved by the proper tey. The tails or detectors are so arranged relatively to the projecting part of the heel of the backle that if the tumbler catches are moved further than is necessary to release them from he front of the shackle, the tails are raised sufficiently to impede the movement of the heel of the shackle. This arrangement prevents the lock from being opened without the proper key.

Claim.—First, combining with the shackle two separate and independent sets of tumbler siches, one set to lock the heel and the other set to lock the front of the shackle, when uranged so as to overlap each other in such a manner as that the key shall come in direct contact with each of them at a point intermediate between their respective fulcra or pivots, and

y raising them up, release them from the shackle, as described.

Second, in combination, the grooves g in the dogs a, and the flanges or pins on the processing part of the heel of the shackle, substantially as and for the purpose described.

Third, in combination, the projecting part of the heel of the shackle, and the tails or detectn of the dogs e, which take into the staple, or front of the shackle, substantially as and for be purpose described.

No. 35,031 .- J. S. MARSHALL, of West Greenville, Pa.-Improvement in Bee Hives .atent dated April 22, 1862.—The sides of the outer hive are hinged together and so arranged at when it is desired to inspect or manipulate the contents of the hive it can easily be spread

Claim.—The combination of the external and internal cases of the hive, when both are matructed and arranged as shown and described, so as to be capable of being spread open. and for the purpose set forth ...

No. 35,032.—G. W. MORGAN, of Mount Vernon, Ohio, C. H. TYLER and JOHN MCCLAVE, New York, N. Y.—Improvement in Hammock Tents.—Patent dated April 22, 1862.—This rention consists in the combination of the upright side bars, canvas cover, portable trestles supports, transverse bars, and the suspended adjustable sacking, in such a manner that in so day time, the lower transverse bar, the end trestles, and the sacking can be readily moved without disturbing the tent cover or its supports, and an unobstructed enclosed space then ding from end to end of the tent secured, and in the night the lower transverse, the esties, or end supports, and the sacking readily readjusted to their former positions without sturbing the tent cover, thus forming a series of suspended hammocks for sleeping purposes. he lower transverse bar is provided with dovetails fitting into sockets on the inner sides of w vertical post, and the sacking is provided at each extremity with eyes which are fastened pins on the trestles and transverse bar. The invention also consists in the combination in the transverse bar, of trestles, whose parts are hinged together and kept apart by stay ooks when in use. These trestles may be disconnected so as to be readily packed in a small ompass, with the transverse bar and other supports of the tent, for transportation.

Claim.—First, the combination of the upright side bars A A, canvas cover D, portable reties or supports F or G, transverse bars B C, and the suspended adjustable sacking

Eips E E, in the manner and for the purposes described.

Second, the combination with the suspended sacking strips E, and the portable transverse of C, of trestles F, constructed in the manner specified, for the purpose set forth.

No. 35,033.—Cancelled.

No. 35,034.—W. T. NICHOLS, of Rutland, Vt.—Improved Ironing Machine.—Patent ated April 22, 1862.—The nature of this invention is explained by the claim and engraving. Claim.—First, a smoothing iron revolved horizontally by machinery, and capable of adustment at pleasure upon any part of the ironing table, and also upon the top of the fire-box, ubstantially as described.

Record, heating rollers externally while they are revolved, for the purpose of ironing, sub-

tantially as set forth.

Third, I claim so applying a heated roller, for the purpose of ironing, that it shall prevent he too rapid forward movement of the garment, at the same time that it performs the act of roning, substantially as described.

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Fourth, so applying heated rollers for the purpose of ironing that they shall revolve at varying rates of speed, for the purpose set forth, substantially as described.

No. 35,035.—CHARLES O'HARA, of London, England.—Improved Propeller.—Patent dated, April 22, 1862.—This invention consists of a form of propeller more especially designed to be used in shallow water. It is constructed of a hollow semi-cylinder of iron mounted upon a vertical or horizontal axis, its surfaces being corrugated. To the upper part of the shaft is attached a toothed wheel. An arm is connected to the piston-rod and provided with a slot through which works a tooth fitting into one of the spaces between the teeth of the wheel, and thus enabling the piston-rod to give to the propeller an oscillator motion. By means of a lever the propeller can be moved so as to bring the corrugated surface in front or on the sides, thus enabling it to back or turn the vessel. When the popeller is arranged vertically, the upper surface is made to form a complete circle.

Claim.—The arrangement and operation of the semi-cylinder oscillating propeller within

the concave a a, substantially as shown and described.

Having the radial face of the said propeller provided with corrugations b, as shown and described.

Also, the combination with the said propeller of the circular plate c, as shown and described.

No. 35.036.—George Palmer, of Littlestown, Pa.—Improvement in Metallic Grading Mills.—Patent dated April 22, 1862.—The longitudinal grinding plates are secured in dore tailed recesses on the cylinder. The advantages of this form of grinding mill are the thinness and lightness of the plates, by which they are enabled to be constructed of the strongest and hardest material; their facility of removal, thus enabling new plates to easily be substituted when the others are worn or dulled; and also in having them separate, so that

they can yield readily to allow the passage of such substances as cannot be readily crusted.

Claim.—The movable, ventilated, longitudinal grinding-plates, attached to a revolving cylinder, in sections, in the manner described, in combination with the concave grindingplates secured to the covering, and made yielding and adjustable by springs and set screws. or their equivalents, in the manner as and for the purpose set forth.

No. 35,037.—JOHN PHELPS, of Laporte, Ind.—Improved Washing Machine.—Patent dated April 22, 1862.—This invention consists in having the bearings of the rubber shaft attached to a sliding frame which is connected by a cross-tie to a spring bar, one end of which is fastened to the framing under the washing vessel. Upon this spring bar is placed an adjustable weight by which the force of the spring can be so adjusted as to regulate the pressure of the rubber upon the clothes.

Claim.—The reciprocating, partially-rotating rubber D, and the concave C, in combination with the spring H, adjustable weight I, and sliding frame F, all arranged for joint operation as and for the purpose set forth.

No. 35,038.—E. A. PIERCE, of Brighton, Mass.—Improvement in Buckles.—Patent dated April 22, 1862.—In this buckle the strap is attached to a roller, so that by turning the latter by means of a suitable key or wrench, the strap is tightened. The roller is provided with a ratchet and pawl, by which it can be held firmly, and the strap prevented from unwinding: the object being to procure a buckle by which a strap can be drawn tighter, with less force, than the ordinary buckle.

Claim.—As a new article of manufacture, a buckle constructed substantially as described, with its frame A, slotted roll B, and ratchet and pawl d s, for the purpose described.

No. 35,039.—Susan D. Pinkham, of Fond du Lac, Wis.—Ventilator for Petroleum Oil Lamps.—Patent dated April 22, 1862.—This invention consists in providing the upper parts of the lamp or burner with an aperture in which is inserted a metal tube, by which communication of the gas inside the lamp with the outer air is obtained, and the escape of any gas which may accumulate in the lamp is insured at a distance sufficient to prevent ignition and consequent explosion, the excessive flow of liquid from capillary attraction being also The same results are obtained by the inverted cup placed over the burner.

Claim.—The combination of the curved tube, inverted cup or disk, with a lamp, substan-

tially in the manner and for the purpose set forth.

No. 35,040.—A. R. Reese, of Phillipsburg, N. J.—Improvement in Cutting Apparatus for Harvesters.—Patent dated April 22, 1862.—Upon the upper surface of the lower member of each guard finger is placed a steel plate having a sharp cutting edge, over which the cutter plate revolves. The finger beam is clasped between the shank of the finger and the face plate, so that plates can readily be removed or replaced when desired.

Claim.—The combination and connexion of the finger beam A, guard fingers B, and face plate C, by means of the bolts a, when the whole are constructed, arranged, and operated

as described, in combination with a reciprocating cutter, for the purpose set forth.

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No. 35,041.-A. R REESE, of Phillipsburg, N. J.-Improvement in Finger Beam for Harresters.—Patent dated April 22, 1862.—This invention consists in so connecting the two sections of the finger beam by means of an overlapping brace-bar under the sections, and an overlapping plate above the beam, that the latter shall be firm and rigid, so as to resist strucks and yet its action be prevented from being impeded by the braces.

Claim.—The combination in a finger beam of the two sections A and B with the bracelar C and overlapping plate E, when constructed and connected substantially in the man-

her and for the purpose described.

No. 35,042.—Thomas Shaw, of Philadelphia, Pa.—Improvement in Tobacco Pipes.—Parent dated April 22, 1862.—The inner bowl is provided with an opening communicating was the annular chamber, opposite to which is an opening connecting the annular chamber with the main bowl and stem of the pipe. The smoke, therefore, in passing out from the processing of the provided with the standard of the process muer bowl, comes in contact with its heated surface, and is thereby deprived of much of its nicotine, and rendered more pure and mild.

Claim.—The annular chamber D, between the inner bowl C and the outer bowl B, the sail chamber having vents x y arranged in respect to the vent m, as and for the purpose set

No. 35,043.-J. H. Simonds, of New York, N. Y.-Improvement in Heaters.-Patent dated April 22, 1862.—In this furnace the products of combustion are brought in contact with air-tubes F, and then, being caused to take a downward direction by the deflector, pass through the draught tubes into the dome-shaped chamber, and then out through tube The tube K, being contracted at its lower part, allows the soot to fall into the chamber D, but is not large enough to admit of a draught passage.

Claim.—First, securing the tubes F in the hot-air chamber D, by means of the flanches c

on the upper ends of the tubes, fitted in sand in recesses d in the top plate e of the hot-air chamber, and by having the lower ends of the tubes fitted over vertical tubular projections h, en the bottom plate i of the hot-air chamber, and within sand, in recesses j, which surround

the tubular projections h, substantially as set forth.

Neund, The draught pipe K, having its lower part u of conical form, with an opening of this lower end, in connexion with one or more draught tubes H and a chamber J, or its equivalent, arranged in relation with the hot-air chamber D, with or without deflector G and snoke-pipe L, to form a self-cleaning device, as set forth.

No. 35.044.—EZEKIEL SMITH, of Cold Spring Harbor, N. Y.—Improvement in Harvesters.—Putent dated April 22, 1862.—In this invention the cutters are secured to the bar by healed pins passing through slots having one end enlarged, or by pins having grooves on the side, which fit the beveiled edges of the narrow part of the slot, and are held firmly in Pos. ion by the pressure of the oblique-sided end cutter which acts as a wedge. This arrarrement allows of the ready removal and adjustment of the cutters.

Claim—Attaching the cutters B to the bar A, by means of the longitudinal adjustable cuter B on the bar A, provided with an oblique inner side g at its back part, and abut leg against an oblique side b of its adjoining cutter B, in combination with the pins c on the bar A and grooves b in the cutters, and with or without the bar C, substantially as

described.

No. 35,045.—J. M. TABER, of Greenwich, N. Y.—Improvement in Hay Elevators.— Parent dated April 22, 1862.—The two forks are united at their upper extremities by a mat, and are prevented from coming too closely together by a spring placed between them. A book is placed between the forks, which may be attached to one of them by a bar and bok, and are easily detached by releasing a catch to which a rope is fastened, so that it to be readily operated when it is desired to spread the two forks asunder. Two ropes *! there united above the head of the fork are so arranged (one passing over the pulley on block, and attached to the opposite tine, the other being fastened to the block and pass-over a pulley on the other tine) that when the load is raised the tines of the fork are Take to hold it closely.

Claim.—The combination of the gang-forks A A, united as described, with the block G at I topes or chains E and F, in the manner and for the purpose specified.

No. 25.046.—WILLIAM TANSLEY, of Salisbury Centre, N. Y.—Improvement in Tools for Panng Horses' Hoofs.—Patent dated April 22, 1862.—This invention is intended to facilise the operation of paring horses' hoofs. The jaw end of the levers is placed against the law tender of the hoof, when, by cleaning the levers, the knife is made to cut the rim of the law tender paint against the desired.

last transversely at any point, as may be desired.

Claim.—As a new and improved article of manufacture, a butteris or hoof-paring implementation. Fral formed of the two levers A B, connected by a fulcrum pin a, and provided respectively

*:h s jaw b and knife C, substantially as shown and described.

No. 35,047.—WILLIAM THOMSON, of Detroit, Mich.—Improved Apparatus for Evaporat-18g Saccharine Juices.—Patent dated April 22, 1862.—This invention consists in the arrange-

ment of a pit dug in the ground or of a chamber built up of brick, provided with suitable as holes and a damper, and with a conical arched spout to receive the stalks and refuse of sugar-cane, in combination with an evaporating pan, which is furnished with a series of heating tubes, in such a manner that they can conduct the heat derived from the combustion of the refuse and stalks in said pit, through the pan, or not, as may be desired. The investion further consists in the arrangement of a reciprocating scraper acting on the exterior surface of the heating tube and bottom of the pan in such a manner that the juice is prevented from sticking to the heated surface.

Claim.—First, the arrangement of the pit A, with the conical arched spout b, damper c and air-holes c, in combination with the pan B, provided with heating tubes d, all arranged

substantially in the manner and for the purpose shown and described.

Second, the employment or use of the reciprocating scraper E, in combination with & heating tubes d and pan B, as and for the purpose specified.

No. 35,048.—J. C. TILTON, of Geneseo, Ill.—Improvement in Ordnance for use user Water.—Patent dated April 22, 1862.—Upon the top of the cylinder is placed a valve so canected by levers to the sliding breech-pin that the return of the breech-pin to its paper place causes the valve to open.

Claim.—The combination of the valve D, fitted to the opening C and the sliding breedpin K, constructed and operated, substantially as described, through crank H and is one

No. 35,049.—J. S. TOPHAM, of Washington, D. C.—Improved Slide for Harness.—Frent dated April 22, 1862.—This invention is designed as a substitute for buckles. The two being placed upon the strap, the pin is fastened in a hole. The plate is then inserted abox, and flanges on each of the plates prevent them from being drawn out.

Claim.—The employment of the spring-plate B and box A, constructed and used subsections.

tially as and for the purpose specified.

No. 35,050.—J. R. TUNNICLIFF, of Van Hornesville, N. Y.—Improved Fire Alera.—Prent dated April 22, 1862.—In the barrel is placed a small charge of powder, and projects from the barrel is a quickmatch tipped with some composition which will ignite at a cour temperature. This instrument is fixed in any convenient situation in a room, and shed it fire occur, the increase of temperature will cause the match to inflame, explode the power. and thus arouse the inmates of the house.

Claim.—As an improved article of manufacture, a fire-alarm, composed of a barrel a said

quickmatch b, combined and operating substantially as shown and described.

No. 35,051.—A. C. TWINING, of New Haven, Conn.—Improvement in Apparatus for Carl ing and Freezing.—Patent dated April 22, 1862.—This invention will not admit of a bad

Claim.—First, the condensing pump and condenser, in combination with the restord whether with or without the gas pump and reciprocating vessel between them and the The gas pump and precipitating vessel, in combination with the restor. whether with or without the condensing pump and condenser intervening, and the empirement of any cold surface of the vacuum vessel, or of the circulating pipes, or the vacuum. as part of a precipitating vessel, or of a condenser in any way, substantially the same above.

Second, the use of cloths, as above, or other plates equivalent thereto, in combination with a distributing funnel, or any distributing plate or arrangement for the liquid; also the use of the colanders in a series, all substantially as above, and in combination with a restorer.

Third, the above diaphragm arrangement for arresting mist or vesicles from vapor, in 🖘

bination with an evaporating apparatus.

Fourth, the clarifier, in combination either with the circulating cold current or the recor-

densed liquor from the restorer.

Fifth, the combination of a vacuum vessel and a liquid cooler therein, with a pump pumps to draw out from the vacuum vessel and throw back in a continuous circulation itsfreezing or refrigerating liquid.
Sixth, the connexion of the escape pipe u u, or of any escape or leak outward, with a carry

surrounding any part leaking inward, to obviate loss of either, as above.

No. 35,052.—J. A. WHALEN, of Brooklyn, N. Y.—Improvement in Revolving Fire-arms -Patent dated April 22, 1862. Through the centre of the breech passes a pin 6, which is rounded by a spiral spring that tends to draw the pin backwards. In the rear of the parand in a line coincident with the axis of the same, is a pin c, also provided with a spin c, which tends to force it forwards against the pin b, the latter passing into a recess in cylinder frame, so as to hold the same in position. By withdrawing the rear-pin, the forward pin springs back and allows the cylinder to be turned.

Claim. The two pins b c, and their springs d and g, applied, in combination with each other and with the cylinder and cylinder frame, substantially as and for the purpose specimes

No. 35,053.—Dyer Williams, of Syracuse, N. Y., assignor to Himself and H. C. Silsby, seneca Falls, N. Y.-Improvement in Fire Engines of Locomotives.-Patent dated April 2. 1302.—This invention consists in placing upon the top of the boiler of the locomotive a ire engine, which can be used in case of fire near the railroad. Steam is furnished by the comovive, and water is obtained from the tank of the tender.

claim.—The combination of a fire engine with a locomotive engine for railroads, substan-

ially as and for the purposes set forth,

No 35.054.—W. E. WORTHEN, of New York, N. Y.—Improved Faucet.—Patent dated April 22, 1862.—The nature of this invention is explained by the claim and engraving.

Claim.-First, the combination, with the plug, of a faucet of locking pistons, vibrating n lines perpendicular to the plug, the combination being substantially as specified, and the

pistons being arranged on the faucet, as set forth.

Second, the omission or cutting away of the metal at the head of a faucet, which is pro-rided with a plug so bored, as described, that liquid shall pass through the bore of the faucet, and then through and out of the plug at right angles, or nearly so, to its former course, such omission or cutting away of the metal to be substantially to the extent and for the purpose described, and the faucet being so constructed that the liquid does not pass through the cavity formed by the omission or cutting away of the metal.

No. 35,055.—NATHAN AMES, of Saugus Centre, Mass., assignor to Himself and NATHANIEL EVANS, jr., of Boston, Mass.—For a Self-Feeding Card Printing Press.—Patent dated April 22, 1862.—The nature of this invention will be understood from the claim. Its construction and operation do not admit of a brief description.

Claim.—First, a rotatory, oscillating, reciprocating type-bed and distributor, in combination with a rocking platen, substantially as described, and for the objects specified.

Second, the slide I, combined and arranged substantially as described, and for the purpose of rocking the platen and keeping the type-bed parallel with it.

Third, attaching the inking rollers to the continued axis N of the crank shaft, causing them to meate with it, and carrying the type-bed and distributor in a circle round said roller, subtantially as and for the object specified.

Fourth, so arranging the card-feeding apparatus on the top of the rocking platen that the rocking of the same, in combination with the bail S, shall feed down the cards at the proper

time, substantially as set forth.

Fifth, constructing the feeding plate R with separate fingers r, and causing them to slide a grooves between the raised strips q, to prevent the face of the card from being soiled or knuched by coming in contact with that portion of the metal subjected to friction, substanusly as described.

Exth, bevelling the ends of the fingers r, so as always to pass under the edge of the card and bring it up against the shoulder c, and prevent the latter from ever catching on it more

than one card at a time, substantially as described.

Seventh, making the shoulder c somewhat inclined, so as to form an acute angle with the surface of the raised strips q, substantially as described and for the objects specified.

No. 35,056.—PIERRE BOISSET, of Paris, France, assignor to Himself and BARNARDO ATTOGNINI, of New York, N. Y.—Improvement in India-rubber Heels of Boots and Shoes.—Puent dated April 22, 1862.—In order to prevent the wearing away of the India-rubber heel, one or two frames, with metal points attached, are incorporated into it in such a manner that the ends of said points, which may be round, square, or of any other shape, may come shab with the bottom of the heel.

Claim.—Making the heel piece a of an India-rubber sole with a frame or frames m, prowith points o incorporated therein, in the manner and for the purpose substantially

& set forth.

No. 35,057. —Pierre Boisset, of Paris, France, assignor to Himself and Barnardo An-?06x1x1, of New York, N. Y .- Improvement in Boots and Shoes .- Patent dated April 22, 192.—This invention consists in incorporating in the caoutchouc soles used for boots and these a metal plate, or small pieces of metal pierced with a suitable thread-hole for the propion of screws, by which the upper leather is securely fastened to the sole.

Cleim.—The combination with a plate or nut a, when the same is imbedded or incorporation is the sole of the sole.

Prated within the India-rubber or caoutchouc sole while being made, of a screw, so arranged operating in connexion with said plate as to allow of the sole being screwed up and latitude to the upper leather, substantially in the manner and for the purpose specified.

No. 35,058.—C. S. Brown, of Homer, N. Y., assignor to Himself and J. H. KENNEDY, the same place.—Improved Portable Sawing Machine.—Patent dated April 22, 1862.— The saw is connected with the fly-wheel so as to receive a reciprocating motion. The log les aw is connected with the fly-wheel so as to receive a reciprocating induced.

beld firm by a dog on the arms, which are attached to the uprights of the main frame.

When it is desired to move the machine, the frame is brought into a horizontal position, the

arms extended out, and secured by the clamping hook, so as to serve as handles for trundling the machine upon its fly-wheel.

Claim.—The combination and arrangement of the frame A A, gate D, dog-arms L, firwheel and crank G F, and saw K, substantially in the manner and for the purpose shows and described.

Also, in combination with the described machine, the clamp hooks o, or equivalent device for holding the dog-arms L L rigidly to the frame A A, to serve as levers for trunding the machine on the fly-wheel G, substantially as set forth.

No 35,059.—J. W. Douglas, of Middletown, Conn., assignor to W. & B. Douglas. It he same place.—Improvement in Pumps.—Patent dated April 22, 1862.—The valve chest attached to the pump cylinder near its top, and communicates with the pump cylinder by means of an opening near its bottom. The valves are arranged in two sets, so that at the piston moves up and down, water is made to flow in either below or above it, and is the forced out through the eduction valves by the same motion. By this arrangement a continuous stream of water is made to flow around the piston, so that its packing is alwayskept soft and pliable, and at the same time the valves are so situated as to afford easy at a for purposes of repairs or inspection. The floor of the horizontal passage through which is water passes from the induction openings is made at the same operation with the casing the valve chest and roof, by placing a sheet of tin in the proper position, and allowing the metal designed to constitute the floor to flow upon it.

Claim.—The combination of a vertical pump cylinder, the valve chest in positive described, and the lower end of the cylinder being made imperforate, substantially it.

manner and for the purpose set forth.

Also, the use of a tinned iron plate P P, to aid in forming the floor of the horizontal passage O2 O2, extending from the front to the rear of the valve chest, substantially in imanner and for the purpose described.

No. 35,060.—WILLIAM HESTON, of Bedford, Ohio, assignor to A. H. COMSTOCK, of the same place.—Improvement in Horse-powers.—Patent dated April 22, 1862.—The coars wheel is kept down upon the pinion wheel by means of rollers attached to adjustify standards provided with slots, through which pass the bolts by which they are attacked to the main frame, and are thus allowed a slight vertical motion. The springs operator press the standards down, but their elasticity allows them to yield a little, and thus parallely to the crown wheel from any sudden strain.

Claim.—The self-adjustable standards H and springs I, in combination with the releas K when these several parts are arranged in their relation to the crown wheel B and pines i

as and for the purpose specified.

No. 35,061.—W. H. MATTHEWS, of Chelsea, Mass., assignor to UNION GLASS Co. Somerville, Mass.—Improvement in Glass Deflectors for Lamps.—Patent dated Apr. 21862.—The flanch of the glass deflector rests upon a ring, and is covered by an annu. 27 This cap has extending out from its inner sides two projections opposite each other, on various the base ring rests, and is thus secured to the cap, the said ring having notches cut it is enable it to slip over the projections when it is desired to separate it from the cap. Its chimney is made to rest on the rim of the metallic cap, thus preventing it from break.

Claim.—The described mode of constructing the glass deflector holder, viz., of the scale cap and base rings provided with means of connecting them as set forth, in order

may be applied to the glass deflector and its flanch, as specified.

No. 35,062.—STUART PERRY, of Newport, N. Y., assignor to C. H. A. CARTER, et N. York, N. Y.—Improvement in Tread Horse-powers.—Patent dated April 22, 1862.—The vention consists in using, in connexion with what are known as tread or treadle horse-priest two or more interlaced treadles or treadle-frames, one of which shall be acting, which other is returning to its place, and so on alternately under the feet of the horse or lines as they walk upon their interlaced treadles, and thus producing a motion that nav. any well-known mode, be transmitted to any machinery which is to be driven by it.

Claim.—First, the use of two or more interlaced reciprocating treadles, to be open upon by a horse or horses, for the purpose of making a horse-power machine, substitute.

such as described.

Second, in combination with two or more reciprocating interlaced treades, the underneath them for bringing them alternately into contact with, and lowering them are from, the feet of the horses, substantially as described.

Third, in combination with two or more treadles acted upon alternately by the feet of horse or horses, the racks and segmental gears for producing a continuous rotary metor of the alternate reciprocating motion of said treadles, substantially as described.

Fourth, returning each of the treadles, after it has completed its working traverse. A represented working position by means of the mechanism described and represented, or its stantial equivalent.

No. 35,063.—STUART PERRY, of Newport, N. Y., assignor to C. H. A. CARTER, of New ork, N. Y.—Impresement in Circuit Horse-powers.—Patent dated April 22, 1852.—This vention consists in the use of one or more endless belts or bands in horse-power machines, which the horses are hitched; and the power of the team is communicated through these pes or bands to a force-transmitting pulley or shaft, whence it may be taken to any mannery to be driven by it. The invention also consists in providing suitable appliances for sping this travelling rope or band in contact with the pulley, whether said rope has a bite turn around the shaft or pulley, or whether it partially encircles it.

Claim.—In circuit horse-powers, the hitching of the team or teams to an endless belt band, that travels around with the team, for the purpose of transmitting the power of a team to a pulley, shaft, or wheel, whence it may be applied to any machinery, substan-

ally as described.

Also, in combination with an endless belt or band that has a turn or bite around a run, shaft, pulley, or wheel, a self-acting connecting and disconnecting mechanism, whereythe draught may be continuous though the band or belt is let go and seized by said mechnism for the purpose set forth.

No. 35.064.—STUART PERRY, of Newport, N. Y., assignor to C. H. A. CARTER, of New ork. N. Y.—Improvement in Speed-Regulators for Horse-powers, &c.—Patent dated April 2.1862.—Within two arms of the wheel, diametrically opposite to each other, are placed eights provided with springs at each extremity, which act as cushions to prevent too much solon or jar in stopping or starting the machine. The outer spring is also arranged to act a regulator to the weight. The lower part of each weight is provided with projections high, when the weights are forced out by the centrifugal action, bear with sufficient force the rim of the loose wheel E to cause it to rotate so as to communicate motion by means a band to the pulley F. On the axle of this pulley is a cylinder, in which is a small segent cut away so as to act as a brake, the flat part being brought against the rim of the rewell when the pulley is rotated by the action of the team. The poise acts to rewre the brake from the wheel whenever the force is not sufficient to rotate the shaft and six the weight. By this arrangement of devices a uniform and constant rate of motion is sintained.

Claim.—First, in connexion with a speed-regulator for machinery, the arranging of the eights that are to be centrifugally acted upon, in the hollow arms of the wheel A, in contion with restraining or regulating springs, substantially as and for the purpose set forth. Second. in combination with the weights acted upon centrifugally by the wheel A, the see wheel E, belt g, and pulley F, or their equivalents, constructed, arranged, and operate substantially as described.

Third, in combination with a brake which is operated by means of weights acted upon strategilly, the poise J, applied on the retrograde side of the pulley F, substantially as and the purpose described.

No. 35,065.—John Schatt, of Philadelphia, Pa., assignor to S. P. Mervine, of the me place.—Improvement in Dry Gas-meters.—Patent dated April 22, 1862.—Attached to single central arm of the knuckle D is a pin which moves in slots in the arms, and reby causes the motion of the diaphragm to be communicated to the valve-stem, one of slotted levers being attached thereto, the other being fastened to the stationary holder. Claim.—The employment, in dry gas-meters, of levers C C' provided each with a slot m its one end, for the reception of a traversing pin f, the same operating together submittally in the manner set forth and for the purpose specified.

Also, making the knuckle D to have only a single central arm d3, as set forth, and

necting it with the valve-rod levers, provided with suitable slots in their connecting end, betantially in the manner described and set forth, for the purpose specified.

No. 35,066.—James Sheridan, of St. Louis, Mo.—Improvement in Snow-Ploughs.—
test dated April 22, 1862.—To the under side of the car body are placed brackets provided
in grooves, in which a pin attached to the plough-beam works up and down, thus keepgate plough-beam from interfering with the vertical motion of the car on its springs.
Lacket to the plough-beam is a double spring, which is carried around a pivot on the
seket and made to bear on the under side of the car-block; this spring holds the plough,
ich is set obliquely to the truck, in the proper position, but at the same time allows it to
determine the spring when it is desired to hold the plough down firmly. The plough, or
taper, is braced by lateral braces extending from a clamp fitting loosely on the beam to a
temporary of the brackets.

Claim.—The combination, arrangement, and mode of supporting the plough-beam F, with egrove E', plough and car body, as and for the purpose set forth.

No. 35,067.—ETHAN ALLEN, of Worcester, Mass.—Improvement in Revolving Fire-arms. Patent dated April 29, 1862.—One end of the lever H is hung to the frame, the other ending attached, by means of a projecting arm near its extremity, to the cock. Pivoted to the

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inner extremity of the lever, and nearly at right angles to it, is a hooked piece which, when the cock is raised, is made to come in contact with notches in the cylinder so as to revolve it. The size of the notch in the cock is regulated by the screw, thus enabling the piece to be discharged by a slight pull on the trigger, if desired. By means of a rack and pinton, provided with a crank, the centre pin, when it is desired to remove the cylinder, can be carried back into the block.

Claim.—First, the combination of parts m, k, and H of lever H, being hung at the cock

substantially as specified and for the purpose set forth.

Second, inserting screw p in cock F in such a manner that the size of the notch can be regulated from the outside of the arm by turning said screw, as described.

Third, the rack K and pinion M for operating the centre pin, substantially as specified.

No. 35,068.—John F. Allen, of New York, N. Y.—Improvement in Steam Engine -Patent dated April 29, 1862.—The object of this invention is to increase the area of the pasage for the egress of steam, which is opened or closed by a slight movement of the valve.

Claim.—A cup slide valve, having formed in it a passage which is independent of the exhaust cup, and which opens on the face of the valve in front of and behind the said exhaust cup, in combination with an elevated seat, or one of equivalent form, when the said valve and seat are so arranged relatively to each other that at proper times two passages are openfor the entry of steam into either end of the cylinder, substantially in the manner and for the purposes set forth.

No. 35,069.—JOHN F. ALLEN, of New York, N. Y.—Improvement in Slide Valves of Star Engines.—Patent dated April 29, 1862.—The form of the valves and seat will be evident to the state of the valves and seat will be evident to the state of the valves and seat will be evident to the valves and the valves are the valves are the valves are the valves and the valves are the valves the engraving. By this construction a slight movement of the valve is made to open or close a large area of the steam passage, thus preventing a gradual admission of steam into the cylinder or exhaustion from it.

Claim.—The employment of a slide valve, formed as specified, in combination with its described seat, when so arranged relatively to each other that an opening, equal in breath to twice the distance traversed in the same time by the valve, may be made into one end of

the steam cylinder, in the manner and for the purpose aforesaid.

No. 35,070.—John F. Allen, of New York, N. Y.—Improved Link Motion of Sum Engines.—Patent dated April 29, 1862.—This invention consists in the combination of a Stephenson's link motion, or an equivalent therefor, with one or more steam or inducive valves and one or more exhaust valves. The said steam valves, having different movements from the said exhaust valves, when the exhaust valves receive motion from that part of the rocking lever which is best suited to give them correct action, while the steam valves 2 moved to any other part of the same link, which will cause them to effect a shorter cut-off the that part of the link would do, by which the exhaust valves are moved.

Claim.—The combination of a single link motion, or its equivalent, as specified, with one or more steam valves and one or more exhaust valves; the steam valves having movement independent of and differing from those of the exhaust valves, when all the said valves received their respective movements from the single link motion aforesaid, substantially in the manner

set forth and for the purpose specified.

No. 35,071.—John F. Allen, of New York, N. Y.—Improved Valve Gear for Sea-Engines.—Patent dated April 29, 1862.—The object of this invention is to furnish a substant for Stephenson's link motion, which will produce in the valves, with which it is connected movements similar to those derived from said link motion, and while, at the same time, is designed to possess greater simplicity, and, by reason of its compactness, be more easy? application.

Claim.—The combination of the valve-driving lever a and a single eccentric, or of the respective equivalents, when, substantially in the manner described, the said lever received. from the single eccentric movements which are similar to the movements of the link in the Stephenson's link motion, adapting the device as a substitute for the link motion aforesaid

as set forth.

No. 35,072.—S. A. BAILEY, of New London, Conn.—Improved Wringing Machine Cylinder —Patent dated April 29, 1862.—Near one end of the shaft is a circular metallic plate, and rest the other a cog-wheel. The rods pass through the plate and cog-wheel, and are secured one end; they are encircled by the rubber cylinder, into which they are imbedded, and are thus prevented from turning.

Claim.—The employment of the rods a a a, in combination with the shaft A and mb'er cylinder B, for the purpose of securing the rubber and preventing it from turning during

operation of wringing, as is fully set forth.

No. 35,073.—L. W. BEECHER, of New Haven, Conn.—Improved Fruit Basket.—Patent dated April 29, 1862.—The claim explains the nature of this invention.

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Claim.—Using paper for baskets, instead of wood, or other material, fastening the same together with glue or other like matter, and coating the whole with varnish or other preparation that will withstand moisture, substantially as and for the purpose specified.

No. 35,074.—PARDON BOYDEN, of Sandy Creek, N. Y.—Improvement in Snow Ploughs for Railroads.—Patent dated April 29, 1862.—This snow plough consists of an inclined bed or platforn composed of two parts, each part having a different inclination, the sides and rear portion being protected by peculiarly constructed pieces of metal, in the bottom of which inverse two endless elevators, which, as the snow is forced upon the front of the machine, carry it up and discharge it through exit passages on each side of the plough, clear of the machine and the railroad track.

Claim.—The construction of the frame or body of the plough, as set forth, in which traverse two endless removers or elevators, which effectually deposit the snow clear of the machine

and the railroad.

No. 35,075.—Albert Brown, of Mifflinville, Pa.—Improvement in Flour-Packing Machine.—Patent dated April 29, 1862.—The claim and engraving explain the nature of this invention.

Claim.—First, the method of imparting rotary motion to the propeller or other rotary flour-packing device so as to allow of its rotation at variable elevations by passing the propeller shaft through the sleeve of the main gear wheel, said sleeve being provided with friction rollers impinging upon and working within grooves or ways arranged along the said shaft, substantially in the manner set forth.

Second, in combination with a stationary hopper or spout for the conveyance of the flour to the bag to be packed, the adjustable funnel constructed and arranged substantially as described, so as to be readily adjustable to the stationary hopper, and securely hold the open-

ing of the bag distended, substantially as shown and described.

Third, the arrangement described of one double-winged screw propeller over the other, so that while the one shall evenly spread the flour in advance of the other, the latter shall press the flour thus spread.

No. 35,076.—F. A. BROWN, of Ithaca, N. Y.—Improvement in Railroad Chairs.—Patent dated April 29, 1862.—The chair is swaged from a plate of requisite thickness so as to form a lip or flanch on each side to receive the base of the rail. The bottom of the chair is slotted lugitudinally at each side, and the metal between the slots is forced or pressed down to form abox for the reception of a key or wedge, which is driven in and draws down the base of the rails, which operation tends to force apart the upper ends of the rail, and, at the same time, lraws the lips snugly to the base of the rail.

have the lips snugly to the base of the rail.

Claim.—The employment of the central box C, in combination with the chair A and sup-

orting wedge D, as and for the purpose shown and described.

No. 35,077.—JAMES BUDD, of Sandy Hill, N. Y.—Improvement in Pumps.—Patent dated 1pril 29, 1862.—The valve S is provided with a stem which passes up through a stuffing box in the top of the chamber G', and also with a screw, by which it can be raised so as to close be induction pipe or lowered so as to close the eduction pipe by pressure on its valve. The valve is placed in a position midway between the pipes when it is desired to draw water through with pipes. The eduction pipes are also provided with valves capable of adjustment, so that ther can be closed or both left open at pleasure.

Claim.—First, the two induction pipes F'Q, in combination with the chamber G', provided

with the valves G S, and all arranged substantially as and for the purpose set forth.

Second, the combination and arrangement of the two nozzles M M', chamber L, and valve N, and eduction pipe K, substantially as and for the purpose set forth.

No. 35,078.—E. F. Burrows, of Mystic River, Conn.—Improved Self-acting Brake for Redroads.—Patent dated April 29, 1862.—The rods are allowed a longitudinal play in op-inste directions in bearings situated under the car body, and, by means of toggle joints attached to their opposite inner extremities, are made to force the shoes, which latter have their increased of the rod, and thus, when the car is descending a grade and the horses hold back, its brakes are applied through the medium of the toggles. The sleeve behind the front bearing prevents the rods from being pulled too far forward. The rod passes through a sleeve in the front part of the car and in reach of the foot of the driver, and can be pressed down so as no come in contact with the front sleeve, and thus prevent the brakes from acting when the rake at will.

Claim.—The combination of the toggles E E F F, shoes G, and rods D, provided with the mars or stops I, all being arranged and applied to the car or other vehicle, substantially as ad for the purpose set forth.

Also, the projections J attached to the rods D, in combination with the pins L, for the pur-

re specified.

Further, the levers M, when used in connexion with the rods D D, and provided with the projections J, the toggles E E F F, and shoes G, all combined and arranged as and for the purpose set forth.

No. 35,079.—LYSANDER BUTTON and ROBERT BLAKE, of Waterford, N. Y.—Improvement in Pumps.—Patent dated April 29, 1862.—Each end of the double crank is connected with one of the piston rods respectively, so that one piston is caused to ascend while the other

descends, thus producing a simple double-acting pump.

Claim.—The two pistons operating in one cylinder by means of the two piston rods, one passing through the other, combined with and operated by the double crank, in the manner

and for the purpose set forth.

No. 35,080.—GARDHER CHILSON, of Boston, Mass.—Improvement in Dampers.—Patent dated April 29, 1862.—The lower part of the smoke-pipe, which is made like the frustrum of a cone, is provided with openings which correspond to the annular valve around that portion of the pipe. The handle by which the damper is turned is provided with a slot in which moves a pin attached to the register, and thus the size of the openings are regulated proper tionately to the movements of the damper. A small hole is made in the centre of the damper which allows sufficient draught to maintain a combustion when said damper is closed, and a short cylinder within the main pipe and extending up above the holes in the register sets a a guard to prevent a custent of cold air from passing inward through the damper hole.

Claim.—The arrangement and combination, substantially in the manner as described, of a

perforated annular air valve G, and its seat B, with a damper D and a smoke-pipe A, con-

taining such damper.

Also, the combination and arrangement of an annular current guard C with a performal damper and an air register arranged with respect to a pipe or smoke-conductor, and so se to operate substantially as specified.

No. 35,081.—ORLANDO CLARKE and ISAAC UTTER, of Rockford, Ill.—Improved Everynetor. for Saccharine Juices .- Patent dated April 29, 1862.- Two pans are placed over the furnace, side by side, and so arranged that either may in turn be brought directly over the firead there receive and boil the juice passing into them from another pan situated over the rear pat of the furnace. These pans are each mounted on wheels, which run on inclined rails, each pan being provided with a pinion which gears into a rack on each side of the rails. The depressions at the outer ends of the rails receive the outer wheels of the pan and thus give it 4. sufficient tilt to enable the scum to be removed with ease.

Claim.—Forming depressions f in the inclined rails F, as described, for the purpose of tilting the pans and holding them in that position.

Also, the combination of the racks on the rails F with the pinions on the pan E, when

operating in the manner described for the purpose set forth.

Also, the combination of the pans E E', the gearing for moving them, and the incline rails F, with the fireplace B, when the whole are constructed, arranged, and operated substantially in the manner described for the purpose set forth.

No. 35,082.—J. M. COOK, of Taunton, Mass.—Improved Signal Mechanism for Leconomic Engines.—Patent dated April 29, 1862.—The steam wheel is mounted above the boiler, and it in form like an overshot wheel, being caused to rotate by a jet of steam under the control of the engineer. The rotation of the shaft of this wheel is communicated by means suitable gearing to another shaft, upon which are two disks placed side by side, and connects by a pin. Between the disks is a cam-striker, which, whenever the pin comes against it, revolved and made to strike one end of a lever, the other end being brought in contact with the bell.

-The described combination for ringing the bell by steam from the boiler, the consisting in the steam wheel, the lever hammer or striker, and the gravitating tripper, spplid

by means and so as to operate together, substantially as specified.

No. 35,083.—JAMES M. COOPER, of Pittsburg, Pa.—Improvement in Railroad Arms Patent dated April 29, 1862.—Each of the wheels is provided with an independent axis. inner ends of which fit one within the other. The object of the invention is to obtain secure and durable connexion between these two parts, which will allow each of the who to have an independent motion, and at the same time will afford some lateral play to the ! parts of the axle, thus facilitating the passage of the cars around a curve, and enabling the to be transferred to tracks of different gauge. A portion of the male axle, near its extremit is surrounded by a circular groove, in which are placed two semi-cylindrical tubes, which secured by set screws to the inside of the tubular portion of the female axis. cylinders are shorter than the groove, so as to allow a slight lateral movement of the axle. At the rear end of the tubular portion of the female axle is an elastic pair a loo of metal being interposed between this and the flanged extremity of the male with. allows the axle to yield gradually to lateral pressure, and the disks give smooth Claim.—First, the use of a cylinder or longitudinal sections of a cylinder

searly filling a space in the male axle, when fastened to the tubular or female axle, for the purpose of connecting together the male and female axles, substantially as described.

Second, the use of a flanged head at the extremity of the male axle, either solid therewith or attached thereto, in combination with the cylinders or section of cylinders, attached to the tubular part of the female axle, for the purposes set forth.

Third, the use of an elastic pad inside the female axle, or between the solid ends of the two semi-axies, for the purpose of allowing the axies to yield slightly to lateral pressure in run-ning curves or tracks of narrow gauge.

Fourth, the use of a loose disk of brass or other metal placed at the extremity of the male axle, whether the elastic pad be used or not, to render the motion of the axles more easy during any lateral pressure thereon.

No. 35,084 .- HORACE DANIELS, of Pawtucket, R. I .- Improvement in Machinery for Dressing Sewing Thread.—Patent dated April 29, 1862.—The nature of this invention will

be understood from the claim and engraving.

Claim.—First, in combination with a revolving brush cylinder, a series of lifting or carrying rolls which turn with said cylinder, but may turn on their own axes independent of the

motion of the cylinder, of which they are a part, substantially as described.

Also, the so arranging the brush cylinder, with regard to a hot-air chamber, as that, whilst it shall revolve partially in or through said air chamber, and partially in or through the sur-tounding air, the regulating slides o p may govern or regulate the hot air admitted to both portions, substantially as and for the purpose described.

No. 35,085.—JOSEPH DAVENPORT, of Massillon, Ohio.—Improvement in Springs for Vehicles.—Patent dated April 29, 1862.—This invention is explained by the claim and

Claim.—A vehicle spring made up of pairs of short sections of leaves a arranged around a common centre and radiating therefrom, and clamped between two disks at their inner ends and rivetted or clamped together at their outer ends, all substantially in the manner and for the purpose described.

No. 35,086.—F. DENZLER, of New York, N. Y.—Improvement in Toy Breech-loading fine-arm.—Patent dated April 29, 1862.—Within the breech is inserted a cylindrical breech piece, provided with a nipple for the cap and chamber, for the shot which is discharged by the explosion of the cap alone. The lower part of this breech piece is surrounded by a rim, which beam against a projection on the lower side of the breech, and by which the breech is kept in its place. Upon the rim are notches which, when the breech is partially turned by a suitable handle, allow the projections to pass, and thus permit the removal of the breech piece.

Claim.—The described movable breech piece when said breech piece is held in its place by a bayonet joint, and is removed out of the breech for the purpose of receiving the charge and the percussion cap after each discharge of the gun.

No. 35,087.—J. R. DIKEMAN and J. J. HEWLETT, of Hempstead, N. Y.—Improvement in Machines for Marking and Furrowing Land.—Patent dated April 29, 1862.—The revolving reel, placed upon a shaft between the wheels, marks the position of the furrows as the machine is moved along, the diameter of the reel being nearly that of the wheels, and thus, in connexion with the shares placed in front of the reels, mark off check rows in the land. By increasing the number of bars upon the reel, the distance between the rows can be diminished. Claim.—The combination of a reel or revolving marker with shares or teeth J attached, or

applied to a frame mounted on wheels, and arranged to operate substantially as and for the purpose set forth.

No. 35,088.-J. B. EADS, of St. Louis, Mo.-Improved Turret for War Vessels.-Patent dated April 29, 1862.—The nature of this invention is explained by the claim and engraving Claim.—Making the turret, tower, or shield F that protects the wheel, a protection also to the pilot and lookout, one or both, substantially in the manner and for the purpose set forth.

No. 35,089.—ISAAC EDGE, of Jersey City, N. J., and C. C. HYDE, of Stonington, Conn.—Improved Mode of Firing Night Signals.—Patent dated April 29, 1862.—The couch of fulminste is placed in a socket in the stem of the signal and rests upon the fuze composition. This fulminate, it is alleged, will not deteriorate by age, cannot slip from its place, and is not liable to spontaneous ignition. Within a socket in the handle is the sliding rod, which passes through and is attached to a piston which fills the tube. A knob projects from the piston which traverses in a longitudinal slot in the handle, and fits into a transverse slot in its bottom. When the knob is removed from the transverse slot, a helical spring, placed under the piston between it and the bottom of the handle, is allowed to expand, the end of the rod being lored against the fulminate. The weaker spring, placed above the piston, removes the rod at the impact so as to allow the escape of gases.

-The described improvement in firing night signals by means of the fulminate couch a, fired by the self-acting rod c, actuated by springs f and g, and the piston d and the

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annular plate A, through the agency of the button e, the slot i and the socket b, substantially as described.

No. 35,090.—Jonas Farnsworth, of Lewiston, Me.—Improved Window Washer.— Patent dated April 29, 1862.—This invention consists in the employment of a cylinder prowided at one end with a sponge and rubber. Within the cylinder works a piston, by means of which water is thrown upon the window.

Claim.—The combination and arrangement of the piston A, the cylinder B, the head D, with sponge E and rubber F, substantially as and for the purpose specified.

No. 35,091.—Henry Fletcher, of London, England.—Improvement in Crissian Clips.—Patent dated April 29, 1862.—The suspenders of the crinoline are passed through slots in the metal clips by which the latter are kept in place. The expanders are then laid across them and firmly secured by bending down the projecting ears.

Claim.—A crinoline clip with slots or holes therein for passing the suspenders through and

connecting the expanders thereto, substantially as described.

No. 35,092.—E. H. FUNK, of Newark, Ohio.—Improved Evaporator for Saccharise Juices.—Patent dated April 29, 1862.—The larger pan, which is placed immediately over the fire chamber, receives the crude juice which is there exposed to the first process of evaporation. During the boiling the impurities rise to the surface, and by means of a scraper, adjusted as to extend just below the surface of the juice, are drawn towards the forward and of the pan, the juice passing off through openings into a trough placed for its reception. The condensed juice thence passes into the other pans, which are so arranged on ways that while the juice in one pan is being condensed, the sirup in the other is removed from the fire and allowed to settle and clarify. If the formation of sugar is desired, the juice is drawn in the pan K and there allowed to granulate.

Claim.—The construction and arrangement of the pans or kettles G J J, with relation to the furnace and to each other, for the purpose of evaporating and clarifying and converting into molasses the juice of sorghum, as described and represented, whether the pan K be used

in connexion with them or not, as set forth.

No. 35,093.—LUCIAN GABEL, of Richmond, Ind.—Improvement in Combined Sword and Pistol.—Patent dated April 29, 1862.—The hilt of the sword is divided longitudinally into two sections, which are hinged together and clasped by means of a spring catch. Within the hilt is a pistol, the barrel, hammer, and trigger of which project from the hilt, and which can be used in connexion with the sword, or can be taken out and used separately.

Claim.—The arrangement of a pistol and sword so as to be used jointly or separately, in

the manner fully set forth and described.

No. 35,094.-A. J. Gove, of San Francisco, Cal.-Improvement in Faucets.-Patent dated April 29, 1862.—The hollow truncated cones fit within each other and are fastened together by a nut, the outer ends being provided with flanges which bear against each other. Into the outer end of the inner cone is inserted a nozzle, which is held in position by a pin upon its end, which fits a corresponding hole in the end of the cone. The bung is closed or opened by turning the nozzle up or down, and can be kept closed by means of a catch secured to the flange of the inner cone. The object of this is to have those parts of the device which form the faucet permanently secured in the cask (one such faucet to each cask) and allow the use of a portable nozzle, which can be attached to any faucet, and serves both as a key for opening the faucet and as a nozzle for discharging the liquid.

Claim.—The combination of the hollow-truncated cones A and B and nozzle D, the whole being constructed, arranged, and operated in the manner substantially as specified, and for

the purpose set forth.

No. 35,095.—J. S. HALL, of Pittsburg, Pa.—Improvement in Breech-Loading Ordnance.—Patent dated April 29, 1862.—The breech of the gun is of cylindrical form, and has in it a vertical conical opening, in which the breech plug is inserted. This breech plug is of conical form, and is mounted upon a neck, under which are handles, by which it may be rotated. Across the plug is made a recess or opening, which can be turned to coincide with the bore of the cannon, and a hole bored through the rear end of the breech. Upon the top of the conical piece are situated two nipples opposite each other, and communicating with the bare of the gun. Portions of the conical plug diametrically opposite each other are so cut away as to form four sharp cutting edges, which keep the breech clear, and also cut off the ends of cartridges placed in the gun. The cut away portion also forms openings through which air circulates, thus keeping the breech plug cool. In order to load the cannon, the plug is rotated until its recess coincides with the bore of the gun; the cartridge is then placed in the recess and rammed home through the hole in the rear portion of the cannon. The plug is then rotated again until two nipples come under the hammer, and the breech is ele

Claim.—In combination with the conical opening in the breech of a cannon, the vertical conical plug or breech block, operating therein, substantially as described.

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Also, in combination with the conical breech and plug or block, the hole m in the former, and the opening b in the latter, for inserting and ramming home the cartridge, substantially as described.

No. 35,096.—S. T. HOLLY, of Rockford, Ill.—Improvement in Harvesters.—Patent dated April 29, 1862.—A proper movement is given to the rake carriage by means of a quadrilateral rack mounted on a frame, and operated by a pinion connected to the shaft of the main driving wheel, and attached to the rake carriage by a pair of cross-bars connected at their mersections, one end being pivoted to the rack frame, the other end being attached to a roller traversing in a slot in the rack carriage. The other lever is pivoted to the rack carrage, and is fastened to a roller traversing a slot in the rack frame. This arrangement causes the rack, in moving up and down, to maintain its parallelism. To the crank is fitted a spring bolt, which slides longitudinally in it, and is made to engage in a circular nosing secured to the machine concentrically with the pinion shaft. The spring bolt is provided with a handle parallel with the crank handle, so that the operator, at the same time and with the same hand that he grasps the crank handle to raise or lower the machine, withdraws the prints left from the patches in the presing in the headle in which it was engaged. spring bolt from the notches in the nosing in the handle in which it was engaged.

Claim.—The arrangement of the guides of the rake carriage at an acute angle with the line of progression of the machine, so as to carry the rake further from the divider side of the

machine, as it is moved backward on the guides, substantially as set forth.

Also, the combination of inclined guides for the rake carriage substantially as set forth, with mechanism for moving the rake teeth forward in a line parallel or thereabouts with the line of progression of the machine, substantially as set forth.

Also, the combination of quadrilateral rack of a rake mechanism with the frame in which

it moves, by means of a pair of crossed levers, substantially as set forth.

Also, the combination of a crank handle for operating the pinion of the raising and lowering mechanism of the cutter bar with a spring bolt and circular nosing, substantially as set forth.

No. 35,097 .- ALFRED INGALLS, of Independence, Iowa. - Improvement in Machines for Upsetting Tires.—Patent dated April 29, 1862.—The tire to be upset is placed upon the upper side of the stock, where it is firmly held by jaws which are actuated by means of cams, so as to enable them to be adjusted to any thickness of tire. The bearing plate rests on the upper surface of the stock, and is provided with pendant links, through which the kry can be driven, and thus the plate adjusted to ties of different diameters.

Claim.—First, the cams ff, in combination with the jaws D D, attached to the bars A A', and arranged, in relation with the jaws, to operate as and for the purpose specified. Second, the key H, when used in connexion with the bars A A', jaws D D, cams ff,

stock C, and cam F, as and for the purpose set forth.

No. 35,098.—Ross Johnson, of Frederick, Md.—Improvement in Ploughs.—Patent dated April 29, 1862.—The mould-board is cast with oblong openings in its face, in which are inserted friction rollers, which, by preventing the impact of the rod against the face of the mould-board, lighten the draught of the plough, and also cause a proper "lay" of the furrow sice. The upper one of the friction rollers is of larger diameter than the others, and is called "the turning roller," because it completes the reversal of the rod as it leaves the plough. The plough point It is constructed with a broad face, having in it a recess in which, between a portion of the plough point and the outward edge of the mould-board, is secured a rotary cuiter. By this arrangement the cutter is situated at the nearest practicable point of the daught, and also has secure bearing for working. The steady roller is secured between the uould-board and land side at their lower rear extremities, its axis having a bearing in both these parts. This roller affords a bearing to the plough in the track of the furrow, and thus gives steadiness of action. It also, owing to the peculiar construction of its working face, cuts channels in the bottom of the furrow, which serve as drains for surplus water.

Claim.—First, a solid or unbroken faced mould-board, having a friction roller e, or rollers

'and e', of continuous unbroken working face, and so secured centrally and longitudinally in the working face of the mould-board that said roller or rollers shall present a flush bearing to the furrow slice as it rises upon, passes over, and falls away from the mould-board, in

the manner and for the purpose specified.

round, the auxiliary turning roller e", in combination with the friction rollers e and e', and mould-board b, in the manner and for the purpose set forth.

Third, the rotary cutter h, in combination with the plough point F, extension g thereof, and mould-board b, in the manner and for the purpose specified.

Fourth, the steady roller G, in combination with the land side a, mould-board b, plough point F, and cutter h, in the manner and for the purpose set forth.

No. 35,099.—G. W. LEMLEY, of Pavilion, N. Y.—Improvement in Machines for Boring Sats of Buggies.—Patent dated April 29, 1862.—This machine consists of a block which is rlamped to the carriage seat, and is provided with a cornerer capable of adjustment by means of slots and thumb-screws, by which it can be fixed to the seat in the proper position, so as

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to bring the inclined tube passing through the block over the place where it is desired to bore the corner hole. By means of the screws H H passing through the block, it can be inclined to the seat so as to produce a corresponding inclination in the corner hole. Slotted standards on the face of the block support the gauges, one of which is attached to the guide. S, having feet which rest upon the seat, and by which the block, when removed from the seat, can be replaced in the same position as before. Upon the front edge of the block an inclined planes, one being the reverse of the other. The operator, placing the stock of his bevel on the upper edge of the gauges in turn, and adjusting the blade to the inclined planer respectively, is enabled by the first operation to determine the bevel of the post for the base. in its cross section by the section of the bevel of the shoulders at the tenons on the top sai bottom of the posts.

Claim.—A machine for boring the corner holes in buggy seats, and articles of a lib. nature, consisting of a combination of proper means for regulating and determining the point where and the angle at which the said holes are to be bored, substantially as described

Also, a machine which possesses the capacity of regulating and determining the place and angle of the corner holes, as well as proper means for determining the bevel of the posteric cross section for that angle, substantially as set forth.

Also, a machine which possesses the capacity of regulating and determining the place and angle of the corner holes, as well as proper means for determining the bevel or mitte of a shoulders of the tenons on the posts for that angle, as described.

Also, a machine comprising proper means for laying out or determining all the bevels of the posts of carriage seats, &c., to fit them to any desired angle of corner or post bole.

set forth.

And, finally, a machine consisting of a combination of proper means to bore the come α post holes of a carriage seat, &c., at any desired angle, and to determine or indicate the bevel of the posts in their cross section, and the bevel or mitre of the shoulders of the security thereon, for that particular angle or corner or post hole, as specified.

No. 35,100.—R. O. LOWREY, of Saratoga Springs, N. Y.—Improvement in Windmills.— Patent dated April 29, 1862.—The radial arms attached to the upper extremity of the shaft are provided at each end with a short arm, forming a right angle, each end having the sage the reverse of the other. The extremity of each of these arms is provided with ears, which correspond to ears placed near one end of the side pieces of the brackets on the wings, and through these ears passes an axle pin to form a connexion between the wings and area. Upon each arm, near the wing, is a lever having at one extremity a friction wheel, which bears against one side of the cross-piece of the bracket; to this lever is connected a contract of the cross-piece of the bracket; which is attached to a sliding-ring weight on the lower part of the main shaft. In the manner, when the force of the wind becomes so great as to drive the ways on the focks rollers, the weight acts as a governor, the said weight being provided with a lever by what it can be raised or depressed. When it is desired to stop the mill the weight is raised, which allows the ways to feather in a line with its wind current.

Claim.—First, the arms H, with termini of the construction described, in combination

with the hinging brackets J of the wings or blades I, substantially as set forth.

Second, in combination with the arms H and brackets J, the levers K, rollers A, stops is cords L, and ring weight C, substantially in the manner and for the purpose described.

Third, the arrangement of a sliding-ring weight, constructed as described, in combination with the vertical shaft A, blades I, and clutch lever D, substantially as and for the purpose

set forth.

No. 35, 101.—J. LUCCOCK and J. M. L. GOWDY, of Peoria, Ill.—Improvement in Characteristic dated April 29, 1862.—This invention consists in the combination of a retain. dasher, consisting of a series of curved beaters of varying lengths, with a series of racks of breakers arranged within the churn, the dashers occupying such a position, in respect to the racks, that the ends traverse within the racks, while those of the others traverse beyond the racks, thus creating counter currents in opposite directions through the rack, which impire

upon each other, and thus facilitate the rupture of the oil globule.

Claim.—The combination of the rotary dashers C C' C' of unequal lengths with the racks or breakers D, when constructed, arranged, and operating as described for the purpose ==

forth.

No. 35,102.—W. J. LYMAN, of East Hampton, and A. E. LYMAN, of Williamsburg. Mass.—Improvement in Coffins.—Patent dated April 29, 1862.—Inside the coffin are plant. lateral and vertical braces, which are used in connexion with knees at the angles is strengthen the coffin. The joints are rendered tight by filling grooved recesses which are formed over them with cement, and each side of the cover is provided with a tongue which fits into a corresponding recess, which is also filled with cement. The outer surface of coffin is covered with successive coats of a cement of shellac and India-rubber, alternation with coatings of sand, emery, or like material. By this method of construction a common obtained which, it is claimed is strong and sir-tight and durable.

Claim.—The improved coffin, substantially as described, as a new article of manniacura

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No. 35,103.—WILLIAM MANSFIELD, JEDEDIAH MORSE, and H. H. MANSFIELD, of Canton, Mass.—Improvement in Projectiles for Ordnance, &c.—Patent dated April 29, 1862.—This invention consists in providing in the rear of the projectile two or more spiral air passages formed between two cones, and communicating with a central passage in the front part of the projectile, for the purpose of imparting a rotary motion about its axis by the action of the atmosphere upon it when discharged from a smooth-bore gun. The rear portion of the exterior of the gun is made of a conical form externally, as well as internally, the exterior of such conical portion being in rear of a shoulder over which, in the flight of the projectile, the air rushes against the said surface on all sides thereof, for the purpose of insuring the projectile striking on its point.

Claim.—First, the spiral air passages c c, formed between two cones B b, and combining with a central air passage a, substantially as and for the purpose specified.

Second, the combination of the external conical surface f, forming the exterior of a hollow one, and the shoulder g, substantially as and for the purpose specified.

No. 35,104.—ENOCH OSGOOD, of Boston, Mass.—Improved Regulating Valve for Air, Gas, Src.—Patent dated April 29, 1862.—The nature of this invention consists in the application and combination of a valve and a disphragm, a little larger than the valve, arranged and connected together to operate against each other to hold and balance any pressure that may come against them, the gas coming in between them and out through the valve into the chamber below it for use.

Claim.—The combination of a valve and a disphragm enough larger than the valve to give it any desired power over it wanted to close it, to hold and balance any pressure that may come in between them to be weighed out by weights on the diaphragm, to give the desired pressure wanted in the chamber below the valve for use, constructed and connected together to operate against each other substantially as and for the purpose described.

No. 35,105.—GORDON MCKAY, of Boston, Mass.—Improvement in Boots and Shoes.-Patent dated April 29, 1862.—This invention is designed as an improvement upon the invention for which patents were granted to L. R. Blake on August 14, 1860, and it consists in quilting the sole with a seam or seams formed of a succession of stitches, known as the chain or tambour stitch, each of which passes through the different layers of which the sole somposed and uniting them together.

Claim.—The formation of a quilting seam or seams within those used for holding the vamp, said quilting being formed of chain or tambour stitches passing through the whole

thickness of the sole, substantially as and for the purposes set forth.

No. 35,106.—8. H. Noble, of Vernon Springs, Iowa.—Improvement in Sled and Sleigh Runners.—Patent dated April 29, 1862.—This invention consists in constructing a sled or sleigh runner of cast metal or wood, combined in such a manner that a straight piece of wood may be used for the main portion of the runner, and cast metal for the crook and for the shoe of the wooden portion; the object being to avoid the natural crook of ordinary wooden runhers, and thereby obtain a more durable as well as more economical runner than those constructed in the usual manner.

Claim.—As a new article of manufacture, a sled or sleigh runner formed of a cast-iron crook B, with or without the shoe C, and a straight wooden portion A, combined or put

together, substantially as shown and described.

No. 35,107.—J. P. MARSHAL, of Millbury, Mass.—Improvement in Breech-loading Fire-ers.—Patent dated April 29, 1862.—The gun is loaded in the following manner: The ring if the operating lever being raised, the lock bolt is depressed, when the movable breech is than back by the ring of the lever, leaving an opening in the top of the breech sufficient we the insertion of a cartridge. While the breech is open the trigger is prevented from acting at the side of the bolt, which rests upon its rearward arm and holds it down. After the cardidge is introduced, the movable breech is shoved forward, and closes the opening in the stationary breech, when, by the pressure of the operating lever on the bolt M, the lock bolt is forced into a recess in the cylinder, and the movable breech is securely locked in its forward

Claim.—First, the combination of the peculiarly constructed stationary breech C, with the movable breech D E, arranged for conjoint operation in the manner and for the purpose

becond, the combination of the operating lever H and movable breech with the lock bolt J and trigger P, substantially as and for the purpose described.

Third, the combination of the breech pin X, constructed as described, with the screw G,

Plate E, and cylinder D, arranged and operating as and for the purpose set forth.

Pourth, forming the cone seat and its shield of the same piece with the lock plate, in the

Fish, farming a circular flange around the vent of the stationary breech piece to fit into a carity or recess of corresponding size in the rear side of the cone shield, in the manner and for the paspess described.

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No. 35,108.—H. H. PALMER, of Rockford, Ill.—Improvement in Pumps.—Patent dated April 29, 1862.—Upon the floor or platform of the well is firmly bolted a standard provided Through the platform exon G. The water chamber with a flange or rib which acts as a guide for the air chamber. tends downwards a hollow tube or piston rod F to a hollow piston G. H is sustained by means of a bent rod or strap attached at its upper ends to a ring or cellar suspended below the platform by means of screw rods and adjusting nuts. The pump is designed more particularly for drilled or bored wells, which are usually of great depth but small diameter.

Claim.—The combination of the water chamber H with the suspension rod K, when

arranged and operating as described for the purpose set forth.

Also, suspending the water chamber from the platform A by means of the rods J and I

and guide ring I, as and for the purpose described.

Also, the combination of the flanged standard B, air vessel C, piston tube F, piston G and water chamber H, when the whole are arranged for joint operation, substantially in the mainer described.

No. 35,109.—John Perry, of Albany, N. Y.—Improvement in Machinery for Ginnig Cotton.—Patent dated April 29, 1862.—Upon the upper rail of the frame of the machine is stationary shaft bent in a crank form, upon which is fitted a revolving hollow cylinder having slots cut in its periphery for the passage of teeth which are attached to rods. The rods are arranged with journals at their ends fitted to turn or oscillate slightly within because ings within disks, which are fitted to revolve within the outer cylinder upon the crank slat The teeth being thus caused to vibrate through the slots in the cylinder, enter the cotton with a gradual motion forwards as well as downwards, so as to form the lint without tearing a injuring the fibre, and by being gradually withdrawn from the slots they are freed from a cotton lint, thus avoiding the necessity of using a brush wheel.

Claim.—The construction of a picker for a cotton gin consisting of a hollow revolving

cylinder D, having through its outer periphery slots or openings for the passage througthem of teeth j j affixed to rods which oscillate in bearings placed near the outer peripher : a pair of disks E located within the cylinder, these disks being arranged to revolve simus neously with the cylinder D on an axis eccentric to its axis, so as to cause the said teeth : vibrate back and forth through the slots, substantially in the manner and for the purpose **

forth.

No. 35,110.—H. C. PIERCE, of Homer, N. Y.—Improvement in Churus.—Patent dated April 29, 1862.—This invention consists in the arrangement of certain parts in combusting with the rubbing disk and revolving dasher, whereby either may be made to revolve or but together at will by the same driving wheel; and the said driving wheel may be read. changed from one position to the other. In combination with the rubbing or mixing dis are wings or fans for drawing in atmospheric air and causing it to mingle with the cream a it leaves the said rubbing disk. In combination with the said wings or fans and rubbic disk are adjustable openings for the admission of air thereto in greater or less quantities is

may be desired, in order to adapt the operation to variations in the temperature of the air.

Claim.—First, the arrangement of the eccentric lever L, spring catch M, and ratchet plate N, in combination with the wheel K, pinions C and F, disk D, and dasher shaft B, sub-tan-

tially as and for the purpose described

Second, the employment of the wings G in combination with the disk D and holes H H.

substantially as and for the purpose set forth.

Third, the employment of the plate I, or its equivalent, in combination with the disk P. wings G, and holes H, for the purpose of controlling the admission of air to the interior of the churn, substantially as set forth.

No. 35,111.-L. B. PRINDLE, of Litchfield, Conn.-Improvement in Cups for Electrical of Flouring Mills —Patent dated April 29, 1862.—This invention consists in making april 20, 1862.—This invention consists in making april 20, 1862.—This invention consists in making april 20, 1862.—This invention consists in making april 20, 1862.—This invention consists in making april 20, 1862. of malleable cast iron, with guards cast on the front to protect the cups and diminish the friction while running, the cups being attached to an endless belt for elevating grain, meaand flour in mills and storehouses.

Claim.—As a new article of manufacture and sale, making elevating cups of malks

cast iron, for the purposes set forth.

No. 35,112.—GELSTON SANFORD, of New York, N. Y.—Improvement in Hond-rest Car Scats.—Patent dated April 29, 1862.—The frame of the head-rest consists of two up wooden rods connected near their tops and bottoms by strips, kept apart by a hinged carre-piece and prevented from swaying sideways by adjustable braces. The device is say under the back part of the car seat by means of two hooks passing over it, each being provided wi an eye through which the rods pass.

Claim.—An adjustable portable rest for the head to be attached to the back of a car ≥>and so arranged that it can be folded together so as to occupy less space when not in a-

substantially as specified.



No. 35,113.—ISAAC SHERWOOD, of Unadilla, N. Y .- Improvement in Water Elevators .-Patent dated April 29, 1862.—Each shaft of the spools or drums upon which the bucket cords are wound, is provided at its inner end with a cog-wheel, which wheels gear into each other and are caused to rotate by the action of a cog-wheel on the end of a shaft arranged above the same, and provided with a crank and handle. This latter shaft has a lateral movement in its bearings, so that the wheel can be made to gear with either wheel or else brought in contact with both, and thus stop their motion. A lever G pivoted to the frame has attached to it an elbow joint provided with a clutch, which embraces the wheel E, and in this manner, when either of the buckets is brought to the termination of its upward movement, it strikes the lever, and thus gives the wheel E a lateral movement which causes the movement of both shafts to be arrested, and allows one bucket to be filled while the other is being emptied.

Claim.—First, a water elevator having, in combination, the wheels D and D2 and E, con-

structed and operating substantially as described.

Second, in combination therewith, the double-acting lever G and G2 H K K2, constructed

and operating substantially as described.

No. 35,114.—ISAAC STEAD, of Philadelphia, Pa.—Improvement in Condensing Carding Engines.—Patent dated April 29, 1862.—The face of the doffer is covered with a continuous piece of wire fillet and divided into a certain number of parts. In order to separate the fibres at the points where the wire is divided, use is made of a small revolving toothed separator formed of circular plates separated by collars adapted to the width of the rings or divisions on the doffer, the plates or saws passing between the rings on the doffer. In connexion with the expanator is used a stripper consisting of a plain roller covered with wire fillet, and set so as to work between the fibre separator and cylinder, and serves to carry back the fibres taken from the doffer to the cylinder.

Claim.—First, the revolving toothed cylinder I, in combination with the doffing cylinder

L of a condensing carding engine, as forming a fibre separator, as described.

Second, the stripper S, in combination with the revolving toothed cylinder I, for the purpresent removing the fibres which may collect on the teeth, and carrying them back to the main cylinder, as described in specification.

No. 35,115.—E. M. STEVENS, of Boston, Mass.—Improved Clothes Wringer.—Patent dated April 29, 1862.—The lower part of the jointed levers bears upon the ends of the axle of the upper roller, and in order that the pressure may be regulated to clothes of different thicknesses, the two parts of the lever are connected by a mortise and tenon. By means of thumb-screws, the tension of the spring, connecting the upper parts of the jointed lever, can be regulated. The cores of the roller are fluted so as to enable the rubber to be held securely thereto, while the spaces between the cylinders give to the rubber additional elasticity. The lever clamps are provided with self-adjusting feet to enable the machine to fit the sides of any tub.

Claim.—First, the jointed levers F F, provided with thumb-screws h h, substantially as set

forth and for the objects specified.

Second, making the core W of the rolls fluted, and fitting into the flutes cylinders of rub-

ber, surrounded by a rubber tubing R, substantially as and for the objects specified.

Third, the combination and arrangement of the lever K, self-adjusting foot N, and thumbscrew M, substantially as described and for the objects specified.

No. 35,116.—A. STEWARD, of Plano, Ill.—Improvement in Stationary Counter Scissors.—Patent dated April 29, 1862.—The lower blade of the scissors is pivoted at its extremity in a notch under the counter and the lower blade is bent at a right angle, and attached to a rod shding in guides under the counter, which is connected to a foot lever and treadle. By presfure on the treadle the rod is slid forward and the bent part of the scissors passed beyond and ever the edge of the counter and made to operate through a notch in the counter at the extemity of the measure.

Claim.—Stationary scissors, hung and operated substantially as described.

Also, in combination therewith, a measure so arranged that the cutting blades shall operate at one extremity thereof, as described.

No. 35,117.-N. W. TAYLOR and J. W. BRIGHTMAN, of Cleveland, Ohio.-Improvement in Machines for Drying Sized Paper .- Patent dated April 29, 1862 .- This invention consists or an apparatus by means of which sized or wet paper is first subjected to a moist heated thosphere and then conveyed gradually into an atmosphere of increased heat and dryness real it passes out of the dryer. Its construction will be understood from the claim and en-Clarings.

Claim.—First, the described construction of a drier, consisting of an enclosed chamber, Provided with suitable openings, for the purposes specified, and which can be closed at plea-The and having within said chamber the bearing rollers placed in horizontal rows and the prices seive sets so arranged in relation to each other and the points of introduction for the prices and the heated air, that the paper will pass continually iron a moint to a dry and heated "maphere, as and for the purpose specified.

Second, moving the rollers S M N O P, at decreasing velocities, for the purpose set forth-Third, the plates R and openings a' b', arranged as cue to the purpose described. OOG No. 35, 118.—THOMAS TRIPP, of Amsterdam, N. Y.—Improved Water Wheel.—Patent dated April 29, 1862.—To the main or driving shaft of the wheel is secured a conically shaped centre piece to which is attached a series of buckets. The lower edges of these buckets are curved on their inner sides towards the centre of the wheel, and upon their outer bottom edges are smaller or auxiliary buckets constructed of V-shaped form, their inner edges conforming to the curvature of the main buckets to which they are attached, and their outer edges being convex. Around the auxiliary buckets is placed a band or rim which forms the outer side of the said buckets. The buckets are so arranged that as the water strikes against the cuter or convex sides of the main buckets, it falls into the auxiliary buckets, the bottoms of which are inclined towards the bottom of the wheel, thus making a point of resistance and serves to give additional motion to the wheel, which is designed as a "percussion" instead of a "reaction" wheel.

Claim.—First, the conic form or shape of the centre of this wheel, as applied to wave wheels.

Second, the extension of the lower middle point of the main buckets C C, figure 1, at the point 1, so as to receive the inclined auxiliary buckets, as represented.

Third, the curvature of the inner bottom edges of the main buckets, as represented in figure 1 by the red dotted lines.

Fourth, the curved and V-like shape of the inclined auxiliary buckets to water wheels, a

represented by b b b, figure 2.

Fifth, the scallop or concave of the lower edges of the bottom of the inclined anxiliary buckets, as applied to water wheels—the different curves of the parts of the wheel being are of the same circle as the circumference of the entire wheel.

Sixth, inclined curved auxiliary buckets, attached to curved or concavo-convex main buckets, conforming to the curvature of said main buckets,

No. 35,119.—George Turner, of Cambridge, Ohio.—Improvement in Corn Skeller.—Patent dated April 29, 1869.—The shelling cylinder is made tapering with the teeth placed further apart at the large end than at any other part, and closer together towards the smaller end, for the purpose of rendering the operation easy at the commencement. The box is provided with springs against which the ears of corn are pressed by the cylinder, and upon one of which is a tapering block which serves to change the position of the ear, inclining first one end and then the other to the action of the cylinder and teeth.

Claim.—The tapering cylinder D, with teeth further apart on the large end, and close together as they approach the small end, so arranged, and operated that the ear of corn shall first be received at the large end of said cylinder, and pass toward the small end in process of being shelled, in combination with the springs E and F, and inclined plane G, in the manner

and for the purposes set forth.

No. 35,120.—Amos Westcott, of Syracuse, N. Y.—Improvement in Charas.—Patent dated April 29, 1862.—This churn is composed of a long rectangular box, through which passes longitudinally a shaft provided with paddles of such a shape, and arranged in such a manner, that when turned in one direction they act as ordinary flat paddles, but when the motion is reversed they tend to cause the particles of butter to collect in the contre of the churn where the mass is effectually worked over. On one end of the box is placed a fan, by means of which, during the operation of churning, a current of air is forced through the churn.

of which, during the operation of churning, a current of air is forced through the churn-Claim.—The combination of the plano-diagonal dasher paddles, Fig. 7, A and B, with the box, Fig. 4, and with the shaft A A, Fig. 5, when these paddles are set in such a manner about the shaft, Figs. 5 and 6, as that when the shaft is turned in such direction as to make the diagonal faces of the paddles strike the cream or milk, their effect will be to force the particles of butter, whether large or small, which may be floating in the fluid, toward a vertical plane in the box of the churn parallel to its ends.

Also, the employment of the fan wheel, Figs. 3 and 4, constructed essentially as and for the purposes set forth, in combination with the other parts of the churn, as described.

No. 35,121.—D. H. WHITTEMORE, of Worcester, Mass.—Improvement in Straw Cutters.—Patent dated April 29, 1862.—The two cylinders are caused to move at different rates of speed, the knives on one being closer together than those on the other. The bearings of the cylinders are attached to an iron frame, the upper end of which is secured to the top of one of the uprights, while at its lower part it is secured by a set screw, by means of which the bottom of the frame is thrown out, and with it the lower cylinder, so as to regulate the cut of the suaw. A board, forming a part of the bottom of the hopper, and hinged to it near the middle, is supported on a block, connected by a spring to the outer supporting standard, which spring can be moved backwards and forwards so that its pressure on the board can be regulated. By means of this adjustable bottom a pressure on the feed is obtained by which it is prevented from being drawn forward too fast or easily when a short cut is desired.

Claim.—First, so arranging two cylinders together that the periphery of one shall more faster than that of the other, and at some point between them the knife or knives upon one shall move past the knife or knives or projections upon the other cylinder in such a manner

that both a shear cut and self-feeding operation shall be produced thereby.

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Second, arranging two cylinders together in such a manner that their relative position with the feed in the hopper can be changed for the purpose of varying the length of the feed cut, or so placing them upon the frame that the line of centre of the two cylinders will not be at right angles with the bottom of the hopper, as represented in the drawings, for the purpose of producing a short cut, substantially as set forth.

Third, combining with said share-cutting cylinders the movable mouth-piece L, substan-

tially in the manner and for the purpose set forth.

No. 35,122.—J. A. WILLIAMS, of Utica, N. Y.—Improvement in Locomotive Lamps.—Patent dated April 29, 1862.—The object of this invention is to obtain a locomotive lamp in which the same can be supplied with sufficient oxygen to support combustion, while at the same time it is prevented from flickering owing to the motion of the locomotive. The air is supplied time it is prevented from flickering owing to the motion of the locomotive. The air is supplied externally through the perforations in the encompassing cylinders, and thence passes up through the cap or deflector, and internally through the perforations in the hollow base, passing up through the wick tube. The arrangement of the two other cylinders, and of the cap over the perforations in the base, causes a uniform flow of air by which the flame is kept steady.

Claim.—The perforated cylinders E F, one or more, in combination with the cap or de-

factor G, and hollow wick tube C, arranged substantially as and for the purpose specified.

Also, the perforated cylinders E F, one or more, cap or deflector G, perforated hollow base K, provided with the perforated cap L, in combination with the hollow cylindrical wick tube C, all arranged for joint operation, substantially as and for the purpose set forth.

No. 35,123.—LORENZO WINSLOW, of Rochester, N. Y.—Improved Wrench.—Patent dated April 29, 1862.—Within the jaw B is arranged a pawl, having on its upper edge teeth which is into teeth on the under side of the shank of the wrench, and thus hold the jaw firmly in position. The pawl can be released, when it is desired to move back the jaw, by means of a in passing through it and the jaw.

Claim.—The arrangement within the jaw B of the dog d and spring S in relation to the

as set tasched shank A, the whole operating in the manner and for the purpose substantially as set

No. 35,124.—D. T. YEAKEL, of Lafayette, Ind.—Improvement in Mode of Constructing Ordersco.—Patent dated April 29, 1862.—The claim and engraving explain the nature of this

Claim.—The use of plate or sheet iron or steel in the manufacture or construction of large run or steel cylinders, by winding the plate or sheet iron or steel (the plate or sheet being in with equal to the desired length of the cylinder) around a central mandrel until by repeated continuous layers the intended size is produced, and after the first layer around the central nadrel (which may or may not be welded to the mandrel,) each part of the plate or sheet of Jon or steel so wound to be welded to the part immediately under it.

No. 35, 125.—D. C. LAWRENCE, of Cedar Falls, Iowa.—Improvement in Spring Balances.-Patent dated April 29, 1862.—The suspending hook, scale, handle, spring, and index pointer at all formed from a single piece of wire, which is bent into the form shown in the engraving. Claim.—A spring belance made of a single piece of wire, substantially in the manner and for the purpose set forth.

No. 35,126.—R. L. PRATT, of Philadelphia, Pa., assignor to J. B. COLLIN, of Boston, Mess. - Improvement in the Thread Tension of Sewing Machines .- Patent dated April 29, 1862. The pressure plates, between which and the bed plate of the main supporting frame of the rice, the threads pass, are hinged upon a wire connecting opposite ends of a bail piece, which Passes through ears on each side of the main frame and extends under it. The bail piece stotted so as to admit of the longitudinal movement of a screw provided with a check nut because it in any position. The screw is provided with a nut, attached to which and passing the nut, attached to which and passing through the screw is a piston bearing against the bed-plate a and encircled by a spring. Com-Posion of the piston tends to compress the threads between the plates and thus regulate its anson, and the longitudinal movement of the screw enables the pressure to be regulated procontinually, the pressure on each thread being inversely to the distance from the point of pressure of the piston. The check nut retains the screw in any position desired, so that the is pressure can be increased or diminished without altering the proportion of pressure on sch thread.

Claim.—So combining and arranging the tension devices which operate upon the threads in a sewing-machine which makes the double chain or Grover & Baker stitch, that a cause or any desired relative proportion of the whole tension upon the threads is made to esulomatically operative upon each thread, and so maintained when the total tension on the thrads is increased or diminished, said arrangement and combination being such that changes a the amount of the tension may be made with facility, substantially as described.

No. 35, 127.—Coleman Sellers, of Philadelphia, Pa., assignor to William Sellers & Co., of the same place.—Improvement in Wheel Press.—Patent dated April 29, 1862.—The

adjustable upright is suspended between the tension bars F and G, extending between the permanent uprights, and can be adjusted in any position on them by means of keys and slots so that it can be used with equal facility both for putting on and taking off wheels, a noth being made in the side of the adjustable upright to receive the axle. The blocking piece is hinged to the end of the plunger so that it can swing out of the way when it is desirable to bring the plain face of the ram against the work.

Claim.—The use of an adjustable upright H, or its equivalent, substantially in the manaer

and for the purpose specified.

The hinged attachment of the blocking piece N, or its equivalent, to the forcing-up plunge, substantially in the manner and for the purpose specified.

No. 35.128.—Thomas Shaw, of Philadelphia, Pa., assignor to Himself and Philip 8. JUSTICE, of the same place.—Improvement in Laying Telegraphic Cables.—Patent dated April 29, 1862.—Attached to the cable connected with the vessel is a friction clutch through which the cable passes; this consists of a ring to which are attached three springs supporting the block of metal, which clasp the cable so tight as to create friction, and thus form a support

This supporting device prevents the weight of the cable from clutching the conducting

win

Claim.—The partial supporting of the telegraphic cable while paying out by means of an additional cable, when connected with friction clutches, as described.

No. 35,129.—H. D. Stover, of New York, N. Y., and W. W. W. Wood, of Philadelphia Pa., assignor to said H. D. Stover.—Improved Shutters for the Portholes of Vessels, it.—Patent dated April 29, 1862.—On each side of the porthole of the vessel are hinged plate or metal having plane or concave surfaces, and provided with recesses in their edges which his over the barrel of the gun, but of such a size as not to allow the plates to close perfectly, thus leaving a vertical gap through which the gunner can take aim. These shields, when closed, converge at such an angle as to cause projectiles striking them to glance. They are operated by means of springs, so as to act automatically, or by levers and weight. The openings at the spand bottom between the shields are closed by semi-pyramidical blocks secured to the sides of the vessel. These shields are designed to prevent projectiles entering the portholes of vessels otherwise protected by armor.

Claim.—First, the construction and arrangement of shields or armor to the portholes of war vessels, or floating batteries, substantially as shown and described, by forming two or more plane or curved plates, impenetrable to shot, and arranged at such angles in relation we each other and to the side walls of said vessel or battery as to insure the glancing off of the projectiles thrown upon or against them as set forth.

Second, in combination with movable shields, operating as described, the convex-shaped of angular blocks, arranged to close the top opening between the shields and side walls, and to hold the said shields, when closed, at their requisite angles, substantially as shown and

described.

Third, in combination with such movable shields, closing automatically or otherwise. in the manner described, so forming corresponding recesses to the inner edges of the shields, as that the shields, by closing against the gun, shall leave a vertical space sufficiently narrow to prevent projectiles from penetrating, yet wide enough to allow of the gun being sighted through it.

No. 35,130.—Samuel Vanstone, of Providence, R. I., assignor to Wm. P. Pierce, of Boston, Mass.—Improvement in Machines for Cutting Files.—Patent dated April 29, 1882.—Disks of steel having their edges bevelled are arranged in oblique positions upon a shar, and secured between two nuts, so as to form a gang or series of cutters. Two of these gangs, placed one above the other, and between them the file blanks, are arranged on a sliding carriage. The shaft of the series of cutters has attached to it a weight by means of a cord passing over a pulley, by which means the cutters are made to partially revolve or octlate when passing over the width of the file. The advantages of this arrangement of cutters are, that when one cutter is worn, it can easily be taken out and another substituted, and also when the cutting portion of the cutters becomes worn, the whole gang can be slightly revolved, and a fresh part brought into action.

Claim.—The two disk cylinders, operating simultaneously upon the two sides of the blank, in combination with the poculiar construction of the disk cylinders, substantially as described.

for the purpose specified.

No. 35,131.—J. H. and A. E. REDSTONE, of Indianapolis, Ind., assignor to Themselves and James M. Ray, of the same place.—Improvement for changing a Rotary into a Reciprocating Motion.—Patent dated April 29, 1862.—This invention will be understood by reference to the claim and engraving.

Claim.—The combination, in the manner described, of the groove C, slot D, and slide A,

when operated, substantially as set forth.

No. 35,132.—JOHN ABSTERDAM, of New York, N. Y.—Improved Composition for forming Journal Boxes, Bearings, &c.—Patent dated May 6, 1862.—This invention is explained by the claim.

Claim.—A composition of sulphur and black lead, for filling and forming boxes for bear-

ings of journals of shafts and axles, substantially as described.

Also, the employment of sulphur, in combination with mineral substances, to form a material or composition for bearings of journal boxes for shafts and axles, substantially as described.

No. 35.133.—S. W. BAKER, of Providence, R. I.—Improvement for Printers' Lapping.—Patent dated May 6, 1862.—This invention is designed to obviate the disadvantages arising from the use of the ordinary lapping. This lapping consists of an endless belt made without any perceptible seam or joint, and which is made to pass around the cylinder and over coran guiding rollers placed above, and capable of adjustment, so as to allow of the tightening of the lapping. This arrangement of the lapping, by affording an extended bearing surface, in connexion with its peculiar fabric, prevents the lapping from becoming hardened, and thus obviates many inconveniences arising from that hardness, as well as the frequent changes of the lapping.

Claim.—First, a lapping made in the form of an endless belt or band, and composed of one or more layers or thicknesses of thick woven material, either with or without a surface or

coaing of India-rubber or gutta percha, substantially as described.

Second, the method described, of printing textile fabrics, by the employment of an endless lapping, constructed substantially as described, so as to operate in the manner and for the purposes set forth.

No. 35,134.—CORNELIUS BERGEN, of Covert, N. Y.—Improvement in Grain Separators.—Paient dated May 6, 1862.—This invention consists in the combination with the raking spentus of a longitudinally-slatted bed, having a vertical vibration at the forward end only, to the purpose of causing a more efficient action and perfect separation from the straw.

Claim.—The combination with the raking apparatus described of the longitudinally-slatted and the cams O, for the purpose of producing a vertical vibration at the outer end only; wend furthest from the threshing cylinder, substantially as and for the purpose set forth.

No. 35,135 .- O. M. BUTTLES, of Milwaukie, Wis .- Improvement in Stores .- Patent dated May 6, 1862.—This invention consists in arranging a circular flue at the top of the stove, in such connexion with the exit pipe that a single throttle valve or damper may turn the exaping products of combustion into the circular flue, or allow them to pass directly into the exit flue, as may be desired; the circular flue acting as a radiator to throw out the heat of the chewise escaping products of combustion.

Claim.—The arrangement of the circular flue E at the top of the stove, and in such a positon with regard to the exit flue as that a common valve a may turn the escaping products a combustion into either flue, substantially as and for the purpose described and represented.

No. 35,136.—J. G. CAIN, of Smith's Mills, Pa.—Improved Combination of Table and that.—Patent dated May 6, 1862.—The object of this invention is to combine with a dining the of any size and shape, a sink in which dishes may be washed, after they have been and on the table, thereby obviating the necessity of moving the dishes from place to place. Claim.—A combined table and sink, composed of a water tank, binged table-top A, and ding shelves E E, the whole constructed in the peculiar manner shown and described.

No. 35,137.—J. H. CALKIN, of Troy, Pa.—Improvement in Lubricating Axles of Wheels.—Patent dated May 6, 1862.—This invention consists in the employment of a tube constituted in two parts, through which oil can be supplied to the axle, and so arranged that ce part may fit within the other, and using in connexion therewith a cap or cover, so arranged as, when closed, to effectually exclude dust from the tube and also confine the witherein, and at the same time admit of being readily opened when it is necessary to sup-'ly the tube with oil. The spring retains the cover of the cap down firmly. The object of ". invention is to obtain a lubricating device which is capable of being so adjusted that it can be applied to hubs of different sizes or diameters, will admit of the axle being lubricated with the hub attached, and also be perfectly protected from dust.

Claim.—First, the oil-tube D, formed of two parts a b, arranged substantially as shown,

relative from adjusted to suit hubs of different diameters or sizes, as set forth.

second, in combination with the tube D, the cap E and spring F, constructed and applied is the tabe, substantially as and for the purpose specified.

No. 25,138.—MARY P. CARPENTER, of Buffalo, N. Y.—Improved Ironing and Fluting Marking.—Patent dated May 6, 1862.—The fluting tubes are attached to stoppers fitting into appropriate holes in the plate, which permits of their ready removal when desired. The brible front prevents the tubes from being heated to such a degree as to burn or scorch the wric.

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Claim.—First, the combination of the fluting tubes H, connected to the stoppers g with a furnace having a double front, for the purposes and substantially as set forth.

Second, attaching the fluting tubes to the stoppers g, for the purpose substantially as

described.

Third, the front plate D, in combination with a fluting furnace, for the purpose and substantially as described.

No. 35,139.—GARDNER CHILSON, of Boston, Mass.—Improvement in Sad-iron Heaters.— Patent dated May 6, 1862.—The lower part of this heater is inserted into one of the pot hole: of the stove, the flanch resting upon its surface. The series of heating conductors which extend down through the opening into the stove are designed to conduct heat to the plate against which the irons rest, and in connexion with the peculiar construction of these plates. which are thicker in the middle than at the edges, are designed to insure the uniform and speedy heating of the irons.

Claim.—The arrangement of the guard or heat retainer D, constructed substantially as described, with the pyramidal stand A and the shelf or flanch C thereof.

Also, the hollow, pyramidal stand A, with its sides or plates provided with a series of heating conductors G G, arranged with respect to them and so as to extend down through the opening D or base of such stand, substantially in the manner and for the purpose as sa

Also, a sad-iron heater composed of the hollow, pyramidal stand A, or the same and the ruard D and the heat conductors G, and having the plates of the stand constructed substantially as described and for the purposes as set forth.

No. 35,140.—EDWARD COURT, of Cocymans, N. Y.—Improvement in Brake for Whele Vehicles.—Patent dated May 6, 1862.—The alide is fitted on the perch by pins which pass through slots in the slide, and its rear end slides in a mortise in the bolster of the rear ark. Upon the rear bolster are pivoted shoe levers connected by rods to the slide, and provided at their ends with shoes which bear against the wheel, and are given a slight vertical movement by vertical guides. The front end of the slide is connected to a vertical lever pivoted to the front bolster, while the lower end of the lever is connected by a rod to the sliding rod M, ω which the doubletree N is attached, the upper end of the rod passing through the doubletree and a slot in the draught link on the upper surface of the draught pole.

Claim.—The slide F fitted to the perch or reach C and in the back bolster e, as shown and described, in combination with the shoe levers G G, draught link O, lever K and rod L M the latter having the doubletree N attached and placed underneath the draught pole E, all

arranged as and for the purpose set forth.

No. 35,141.—E. J. CRIDGE, of Troy, N. Y.—Improvement in Cooking Stores.—Patent dated May 6, 1862.—The novelty of this invention consists in the arrangement of parts named in the claim, which will be understood by reference to the engraving.

Claim.—First, the arrangement of the apertures or air passages $r \circ p$ and q in combination

with the continuous air space I J, oven D, fire chamber A, draught chamber C and fire flues E E' E", provided with a valve or damper W, as specified and shown.

Second, the arrangement of the deflecting plates d d in the upright portion of the continuous air space I J, arranged with the oven D, fire chamber A and fire flues E E' E", and having communication with the open air, the oven and the fire chamber above the fuel by the apertures or air passages r o p and q, respectively, as and for the purpose shown and specified

No. 35,142.—W. H. DOANE, of Chicago, Ill.—Improvement in Stave Machines.—Patent dated May 6, 1862.—This invention relates to an improvement in that class of stave-enting machines in which a reciprocating knife is used, and brought, at the termination of its cutting movement, against a bed plate which sustains the bolt. The object of the invention to preserve the cutting edge of the knife, and also to graduate the pressure of a rielding roller, which is attached to the knife gate and placed in such a relative position with the knife as to insure the proper cutting of the staves from the bolt, all checking and splitting of the frame being avoided.

Claim.—First, the combination of the India-rubber strip F, plates i and j and screws k and I, for setting the same, both vertically and horizontally, when the said parts are so arranged in connexion with the bed piece A a and guides f as to afford a rigid bearing for the bolt on both sides of the elastic strip, and the whole employed in connexion with the reciprocating knife D of a stave-cutting machine, in the manner and for the purposes set forth.

Second, the combination of the India-rubber springs p, bearings or boxes n and screws n fitted in the projections r of the end pieces b of the knife gate, all arranged and operating in connexion with the roller G and knife D of a reciprocating stave cutter, in the manner and for the purposes specified.

No. 35,143.—J. N. DUDLEY, of Mitchell, Iowa.—Improvement in Portable Calculate—Patent dated May 6, 1862.—This invention consists in combining together a number of sliding rings having the year and names of the month and the names of the days of the week

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suitably printed or stamped on them with a column of figures, which, when all arranged on a stem in proper relation to the rings, will indicate the day of the month. The object of the invention is to produce a simple calendar which may readily be applied to a pencil case, match box, head of a cane or other similar article.

Claim.—The combination of the several removable rings $b \ c \ d \ s$ with the column of figures

B, arranged on a stem A, substantially as and for the purposes set forth.

No. 35,144.-O. P. DRAKE, of Boston, Mass.-Improved Apparatus for Carburetting fir.—Patent dated May 6, 1862.—The nature of this invention will be understood from the claim.

Claim.—The combination as well as the arrangement of a vaporizer, an air-forcing apparans and an aerometer, the whole being constructed to operate together, substantially as

Also, the specified arrangement of the vaporizer and the air-forcing apparatus, whereby the shaft of the rotary frame of the vaporizer may be connected to and put in motion by the shaft of the rotary drum of the air-forcing apparatus.

Also, the air-inlet box Q, as made and applied to the case A and its shaft, and as provided

with a pipe R, to operate as specified.

Also, the combination of the auxiliary air-pipe 3 3 with the aerometer and the vaporizing

and sensing apparatus, substantially as described.

Also, the combination of the annular air-vessel g g with the aerometer, when combined with a vaporizer and an aerating apparatus, as specified.

No. 35,145.—JAMES EATON, of Boston, Mass.—Improvement in Spindles for Spinning.—Patent dated May 6, 1862.—The object of this invention is to prevent the series of vibrations to which the thread is subjected in the use of ordinary spindles, caused by the thread slipping of from the end of the spindle. This is accomplished by forming the end of the spindle in a scroll, which may be of a form variously modified.

Claim.—As an improvement in spindles, in so forming the point that the thread will draw from the axes or centre of the spindle, substantially as set forth.

No. 35,146.—JACOB EDSON, of Boston, Mass.—Improvement in Gas Regulators.—Patent dated May 6, 1862.—This invention consists in attaching to the induction pipe a hollow receptacle, which is divided into two parts by means of a horizontal disk, whose edges rest on a flange in the interior of the receptacle, and which is allowed a slight vertical vibration. To the underside of the disk is attached a hollow vertical rod which extends into the induction pipe, and when raised up or down closes or opens the aperture. The vertical cut-off rod made hollow for the reception of shot, by which its weight can be regulated in proportion to the pressure. Extending through the upper part of the receptacle is an adjustable rod, by which the disk can be prevented from moving too far upward.

Claim.—First, the combination of the floating disk or diaphragm d and hollow die cut-off or valve rod h with any suitable-shaped receptacle or reservoir of the induction pipe, for the

Furness specified, and arranged therein and operating substantially as described.

Second, constructing the cut-off in a hollow shape, by means of which it can be readily accessed or lessened in weight at pleasure, for the purposes set forth.

Third, the adjustable rod m, or its equivalent, for the purpose described.

Fourth, in so constructing the die cut-off and arranging it in the induction aperture of the apparatus, that when pulled or forced up through the same it will scrape or cut off the coal u. &c., deposited or collected upon their surfaces.

No. 35,147.—E. T. FORD, of Stillwater, N. Y.—Improved Plough Beam.—Patent dated May 6, 1862.—To the rear end of the main beam is united the rear section, which is provided with slots so as to allow of its adjustment to the right or left. The front section consists of wo flanged pieces placed on each side of the main beam, and is connected to the rear section by side rods. These side rods pass through the cross bar near its extremities, and the slot upon the under side of the cross bar, through the lower part of which the centre bar passes, prevents the rods from turning it to either the right or left.

Claim.—The peculiar arrangement and construction of a truss plough beam, consisting of the sectional parts, the rear section g, front section I, cross bar X, the side rods V V and the double box cc, as connected to the centre bar ee, the whole combined as described and

represented.

No. 35,148.—THOMAS FOWLDS, of Treverton, Pa.—Improvement in Ordnance.—Patent dated May 6, 1862.—In the breech of the cannon is bored a small circular hole, in which is screwed a pin traversing in a longitudinal passage, and which projects into the chamber of the camon. A transverse passage is made in the end of the tube, thus forming a communication with the chamber of the cannon. The rear extremity of the screw plug is pointed, so that the catridge when driven home is opened. Screwed within the passage of the screw plug, but having on it threads much narrower than the grooves on the interior of the passage.

Is a rod termed the nipple, one end of which is provided with a head, and on the other and is

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a percussion cap. When the cannon is to be discharged, a sharp blow on the head forces the cap against the shoulder on the screw plug which explodes it, and the fire is communicated through the tranverse passage to the charge. The screw thread on the nipple prevents it from being driven out, but allows sufficient play for the blow to be effective.

Claim. - First, the combination of the narrow screw thread s h, of the cap nipple E and the wide screw grooves f, of the screw pin D, with a cannon, substantially as and for the

purposes set forth.

Second, the combination of the sharp point r with a hollow screw pin D D', substantial.

as and for the purpose set forth. Third, the combination of the shoulder i and passage d with a hollow screw pin D D', substantially as and for the purpose set forth.

No. 35,149.—L. F. & F. W. LETMATE, of New York, N. Y.—Improved Composition for making Printers' Inking Rollers.—Patent dated May 6, 1862.—This invention consists: the employment of glue properly combined with glycerine and castor oil, or any of the fixed oils, to form a composition from which printers' inking rollers may be made. The object. to obtain a roller which will not be effected by the changes of the atmosphere.

Claim.—The use or employment of glue properly combined with glycerine and caster or any of the fixed oils, to form a composition for the manufacture of printers' inking robes

No. 35,150.—KASSON FRAZER, of Syracuse, N. Y.—Improvement in Buckles, Rings, &c.-Patent dated May 6, 1862.—The nature of this invention consists in connecting the east wire used in the construction of buckle frames by means of a dovetail or ball and socket :nexion.

-The method described of connecting the ends of wire rod used in forming back's frames and rings; that is, when the two ends are firmly joined together by interlocking, saistantially as stated and for the purpose set forth.

No. 35, 151. — WILLIAM FULTON, of Elizabeth City, N. J. — Improved Coal Oil Lamp Com -Patent dated May 6, 1862.—This invention consists in using a cone constructed like to a ordinarily used, with the exception that, instead of a slot on the top for the flame to perthrough, there is a smooth round hole, surrounded by a perforated spring plate, serving regulate the clastic force of the air, and thereby insure a steady flame.

Claim.—First, the perforated spring plate D, as shown, or its equivalent, for regulating the clastic force of the air, so that it may be presented evenly to the flame, and as a re-which accommodates itself to the bottom of the chimney.

Second, the construction of the cone B, as shown, in combination with the performance shell K, as shown, and the gauze wire P, as shown, the whole being arranged substantial. as and for the purpose set forth.

No. 35,152.—Peter Hogg, of Brooklyn, N. Y.—Improvement in Hydrometers.—Pater: dated May 6, 1862.—This invention consists of a tube, having its lower end closed by flexible diaphragm, forming a hydrometer, by which the specific gravity of liquids can be ascertained at any temperature. The tube, being filled with water to a certain point, is plant in a vessel of water, and plunged up to that point into the liquid to be tested, when the water contained within the tube will be brought to the same temperature as the surrounding liquid and, according as the specific gravity of such liquid which is in contact with one side o: L. flexible diaphragm is greater or less than that of the water in the tube which is on the ofside of the said diaphragm, the column in the tube will be caused to rise and fall, and the tube being properly graduated, will have the specific gravity of the liquid indicated will it by the height of the column of water. The hydrometer may be placed within an inversiphon, through which the liquid to be tested may flow constantly, thus enabling the specific gravity of the liquid to be ascertained upon inspection of the tube.

Claim.—First, a hydrometer composed of a tube for containing water or other liqu.

fitted with a flexible diaphragm, and operated substantially as specified.

Second, the employment, in combination with the tube A and diaphragm B, of an invesiphon pipe E E', the whole constituting a stationary apparatus for testing the density liquids, and operating essentially as and for the purpose specified.

No. 35, 153.—B. B. HOTCHKISS, of Sharon, Conn.—Improvement in Explosive Projectules.— Patent dated May 6, 1862.—This invention is applicable to all forms of explosive projection and consists in coating the interior of the shell with a solution of shellac, to which the time. adheres, and then solidifying the powder by the use of a solution of collodion, which a v evaporation leaves the powder in a solid mass, thus avoiding danger of explosion are from friction of the grains of powder among themselves, or against the interior of the size and also serving the purpose of confining bullets in shrapnell shells instead of the necommonly used.

Claim.—First, an explosive projectile in which the contents are solidified, substantially

the manner and so as to secure the advantages set forth.

Second, the employment in such projectile of an adhesive lining C, substantially as described. so as to increase the adhesion of the solidified contents to the interior of the shell.

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No. 35, 154.—T. W. HOUCHIN, of Morrisania, N. Y.—Improvement in Night Lamps.—Patent dated May 6, 1863.—This invention relates to the construction of the wick sustainer m lamps burning wax or composition tapers, and consists of a concave circular piece of metal provided with a central opening through which the wick passes, and has a portion of its periphery bent up sufficiently to form an opening in the same, on which the lower end of the wick rests. The portions of metal turned up in punching the opening are allowed to remain and form ears or lips for griping and retaining the wick in the body of the taper. The pe-cular construction of the sustainer permits the use of oil for burning, which may be contained either in the lamp C or the recess in the stand.

Claim.—First, the use or employment of a wick sustainer, constructed as shown in Fig. 3

C, for the purpose specified.

Second, the use or employment of the wick sustainer, as shown in Fig. 3 C, in combination with the stand A, lamp C, taper E, and shade F, when the same shall be combined and operated for the purpose shown.

Third, combining a wick sustainer I, constructed as shown in Fig. 4, with a circular float

J, of cork or other suitable material, for the purpose described.

No. 33,155.—CHARLES HOWLETT, of Hartford, Conn.—Improvement in Balances.—Patent dated May 6, 1862.—To one of the bearing points is attached the indicator, moving on a graduated scale upon the plate, while to the other is fastened a rod, having on its extremity a book to which the weight is fastened. When the weight is attached the plate moves upwards past the indicator, and returns to its original position when the weight is removed.

Claim.—The combination of the bearing points C C, weight F, and indicator B, arranged

as a self-indicating balance, substantially as described.

No. 35.156.—H. W. HUNTER, of New York, N. Y .- Improvement in Magnetic Compasses .-Patent dated May 6, 1862.—The nature of this invention consists in the application to pocket compasses of a floating card similar to those used in ships' compasses, and which, by being colored in the manner described in the claim, enables it to be used at night without artificial

Claim.—A floating compass card B, formed with its upper surface divided into one-half white and the other black, with the exception of the star-point lines c' c'', which are black on the white and white on the black section, as described and for the purposes set forth.

No. 35, 157.—H. C. HUTCHINSON, of Cayuga, N. Y .— Improvement in Burners for Lamps.— Patent dated May 6, 1862.—The object of this invention is to prevent lateral draughts of air ten interfering with the supply of air to the flame, thereby causing the lamp to smoke. This seffected by having the oil receptacle of the lamp covered with a shell, which also covers the chught openings of the burner, and is provided with longitudinal partition plates. Another the invention is to enable the wick to be evenly trimmed, and for that purpose the uper end of the wick tube is rounded or scalloped.

Claim.-First, a central draught entering above the lamp through the lateral air tubes E E. sading to the inner chamber G, closed at the bottom and surrounded by the wick at the top. Scood, the perforated basin C C, so constructed as to cause a counterpoise air pressure against the openings of the air tubes E E when the lamp is suddenly raised.

Third, a round or oval hollow wick formed around the central tube of the burner from two

fall strips hanging loose in the lamp.

Fourth, the screen or perforated guard K, made to a flat, conical, or convex form across inner chamber.

No. 35,158.—J. H. IRWIN, of Beardstown, Ill.—Improvement in Coal-oil Lamps.—Patent Giel May 6, 1862.—This invention consists in having the burner of the lamp or draught in ages which communicate therewith provided with partition plates, so arranged that horitals or lateral currents of air below the flame of the lamp are prevented, and also in having its upper end of the wick tube of rounded or of scalloped form, so as to avoid angles, the

aprior top of the come or deflector around its orifice or slot being of corresponding form.

Claim.—First, having the draught passage of the lamp divided into compartments by par-

List plates b or b', so arranged as to prevent horizontal or lateral currents of air through the rangel passage or burner below the fiame, substantially as and for the purpose set forth. Second, having the upper end of the wick tube C made of rounded or scalloped form, in combination with a cone or deflector B, having its apex or top around its slot f made of corrections. responding form, as and for the purpose set forth.

No. 35,159.—John Iseman, of Rosston, Pa.—Improvement in Joiners' Squares.—Patent and May 6, 1862.—This invention consists of an ordinary metallic square, each arm of which is provided with a longitudinal slot, and secured in a slotted straight edge by pins, so so to be capable of adjustment in any position. The different parts of the square and straight than the straight of the square and straigh the are graduated, so that the device can be used to ascertain the proper length of rafters ter a roof; span and height being ascertained by so adjusting the square as to have one side by seemt the height of the stock be-

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tween the points of intersection with each arm of the square will represent the length of the rafter. This improvement is also capable of adjustment, so that it can be used as a T squitt,

a trying square, or a metre, as may be desired.

Claim — The combination of the square A and straight edge B, arranged and connected

together as and for the purpose set forth.

No. 35,160.—A. H. LEPLAY and J. F. J. CUISINIER, of Paris, France.—Improvement in Revivifying Animal Charcoal for Refining Sugar.—Patent dated May 6, 1862.—In order revivify the animal charcoal used in clarifying saccharine liquors, and which becomes wirated with ammoniacal odorous impurities, the saccharine liquor is allowed to run out the the filter, and into its lower part is introduced a jet of steam which passes through the grand of charcoal. The ammoniacal salts removed by the black are immediately decomposed to the ammonia is conducted from the closed filter by means of a pipe. The revivince in facilitated by adding on the top of the filter, at the same time that the saccharine lique. allowed to flow out, some milk of lime. In order to revive in the animal black the power absorbing lime, two processes are made use of, one consisting in pouring upon the aciduud solution which forms with the lime a soluble salt, while the other consists in pouring the charcoal a solution of monobasic phosphate of lime. When the absorbing properties the charcoal can no longer be restored by the introduction of steam, the addition of a solution. of carbonate of soda in connexion with the steam will revive it.

Claim.—First, the method described of revivifying animal black or charcoal by he: **** or steam, in combination with milk of lime used in the filtering vessels, substantially in

manner and for the purpose set forth.

Second, the method described of clarifying saccharine liquors, juices, and sirups 🤃

means of phosphates, substantially as set forth.

Third, the manner of operating and effecting by means of the different processes described the revivification of animal black or charcoal so as to allow of the collection of the anaels. given off in the revivification.

No. 35,161.—C. C. LEWIS, of White Water, Wis.—Improved Soap.—Patent dated May 6, 1862.—The ingredients used in the manufacture of this soap are one hundred and that six parts of lye, one hundred parts of Fuller's soap, one hundred parts of "kaolin," ex parts of ammonia, and three parts of borax.

Claim.—The use of the specified ingredients for the purpose of making soap, substantially

in the specified proportions and for the purpose set forth.

No. 35,162.—W. A. LIGHTHALL, of New York, N. Y.—Improvement in Refrigerators of Steam Engines.—Patent dated May 6, 1862.—This invention relates to an improvement of refrigerators, for which letters patent were granted to the said Lighthall, February 26, 184. and it consists in returning the injection water from one section of the refrigerator to :: other, through a case or division, by which means the cooling water is made to pass three. the tubes of the refrigerator in one direction, while the heated injection water, after ra- 🕊 through the bed plate, air pump, and hot well, to the refrigerator, passes around and at 4 the tubes in a contrary direction; the object being to expose the injection water as it has the apparatus to the coolest portion of the refrigerating water.

Claim.—The combination of the diaphragm plates F F', with the tubes C and division

plates B, arranged and to be operated as and for the purpose set forth.

No. 35,163.—HENRY LŒWENBERG, of Boston, Mass.—Improvement in the Mode of No. 35 Button Holes.—Patent dated May 6, 1862.—In order to form a button hole by this meind sheet of gutta percha or cloth covered with that material is interposed between the two layer of cloth, which is then pressed between two dies that are heated to such a degree as to " the interposed gutta percha. One of these dies has a thin knife-like projection which race through the slit; sufficient pressure is then given to the dies to cause the gutta perchabites corporate itself with the cloth and form around the button hole an edge having the at ... ance of being stitched.

Claim.—The new method, substantially as described, of making either button or exholes, such involving the employment of dies, heat pressure and gutta percha, or its e

lent, substantially in manner as specified.

No. 35, 164.—S. M. LOGAN and P. E. BAKER, of New Carlisle, Ohio.—Improvement Terra Cotta Roofing.—Patent dated May 6, 1862.—Each tile is provided with a rim a... side, which, when the tiles are placed in position, form the joints which are covered by caps, thus making the joints water-tight.

Claim.—First, the use of the caps a a for covering the joints in the manner set for the caps a set for the c

described.

Second, the caps, in combination with the laps b b, in the manner and for the put \sim forth and described.

No. 35,165.—GORDON MCKAY, of Boston, Mass.—Improved Process of Sering the Sering of Boots and Shoes.—Patent dated May 6, 1862.—The object of this invention is to

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the seam to be made completely around the shoe, thus facilitating the sewing and making a stronger seam.

Claim.—The described process, in sewing the soles upon boots or shoes, of changing relatively the positions of the boot or shoe and the horn, substantially as described.

No. 35,166.—A. G. WILKINS, of Cooperstown, Pa.—Improved Washing Machine.—Patent dated May 6, 1862.—This machine consists of a slatted carrier, upon which the clothes are confined by cords, and which passes over two rollers of unequal size, placed near opposite this of the tub. Under the carrier, at about its middle, is placed a fluted roller, over which the said carrier passes, and by which the clothes are exposed to a rubbing and squeezing process. The bearings of the larger roller are allowed a longitudinal movement, for the purpose of tightening the carrier. The shafts of the fluted roller rest in two vertical arms, provided at their extremities with screw-heads; thus giving the roller a vertical movement, and enabling it to hold the slatted carrier stationary, so that it can be used as a hand wash-board, if desired.

Claim.—First, the arrangement of the larger roller B, smaller end roller C, central fluted roller D, and inclined slatted carrier F, within a washtub, in the manner and for the purpose substantially as described.

Second, the arrangement of the platform E, slatted inclined carrier F, large roller B smaller roller C, fluted roller D, longitudinal screw rods d d, and vertical screw arms g g, in the manner and for the purpose described.

Third, the arrangement of the clothes-confining cords s, across the slatted carrier, in an organization such as described, for the purpose set forth.

No. 35,167.—EDMUND MAHER, of New York, N. Y.—Improvement in Repeating Firesyms.—Patent dated May 6, 1862.—This invention relates to that class of guns having
morable magazines or charged cartridge-chamber bars at the open breech-end of the barrel,
and it consists in the arrangement of peculiarly formed grooved cams, secured on a horizontal
reviving shaft, immediately below the said magazine or chambered bar, and in such relation to successively move the cartridge-chambers in the bar immediately opposite the breechend of the barrel, and hold them in that position the required time to be fired; thus
staining the greatest accuracy in the position of the cartridge-chamber relatively to the bore
of the gun, and by means of the rigid tongues and grooves, combined with studs and rightangled portions of the flanches of the cam, firmness of hold at the time of firing, at the same
time allowing the parts to move out of contact, without friction, at each adjustment of the
chamber-bar. The invention also consists in providing a means of moving the gun a slight
distance, simultaneously with every movement of the chambered bar, past the breech of the
gun-barrel.

Claim.—First, the combination of the rib A, flanched and grooved hub F G', and recesses or grooves S of the chambered bar C, substantially in the manner and for the purpose described.

Second, combining with the gun the ring I, friction-pall K, with slotted arm, and the parts attached thereto, for giving a slight movement to the gun on its pivot, at every revolution of the transverse shaft F, as fully set forth.

No. 35, 168.—W. V. McKenzie, of Jersey City, N. J.—Improvement in Oil Presses.—Patent dated May 6, 1862.—This invention is intended as an improvement on that class of dipresses for which letters patent were granted to D. L. Lalourette, October 28, 1851, in which series of parallel sliding plates were used, each serving as a press-box on one side, and as a lower on the other, the several press-boxes being provided at the top and bottom with the able doors. The use of the doors gave rise to many inconveniences which this invenient is designed to obviate. The invention consists in the employment of a slide passing were the top of the several press-boxes, and through slots formed in the upper portion of the class, in such a manner that by inserting said slide the several press-boxes are complex closed on the top, and an additional guide for the sliding plates is obtained. It consists further, in the employment of a sliding key passing through slots in the lower parts of manner that by the action of the key, the doors are prevented from being the patents of the pression of pressing commences, and they are not liable to become

'laim.—First, the employment of the slide G, in combination with the press-boxes A' B' C', tructed and operating as and for the purpose shown and described.

reproduction of the key H, in combination with the hinged doors a' b' c', at lection of the press-boxes A' B' C', constructed and operating as and for the purpose reched.

No. 35,169.—MATTHAS MEAD, of Lowell, Mass., assignor to SAMUEL RANDALL, of the place.—Improvement in Drawing Cans for Cotton Rovings.—Patent dated May 6, ——The invention consists in attaching to the body of the common tin can a bottom in the control of such material, that it will have sufficient strength to resist for a very long where wear and tear to which it is exposed, while at the same time it renders the can no control of the control of the can no control of the control of the can no control of the can no control of the can no control of the control of the can no control of the control of the control of the control of the can no control of the control

Claim.—First, a drawing can constructed substantially as and for the purpose described. Second, forming the bottom of a drawing can of one piece of raw or green hide, substantially as and for the purpose described.

No. 35,170.—A. A. PEATT, of Greenfield, Mass.—Improvement in Shackle for Connecting Thills to Azles.—Patent dated May 6, 1862.—This invention consists in having the back ends of the irons of the thills bent in hook-form, and fitted in eyes which are attached to the axle, where they are secured by centre bolts and nuts; the object being to obtain a shackle or thill-coupling which, besides being simple in construction, and forming a strong and durable connexion, will, in case of breakage, possess in itself a means to form a temporary connexion, and thus prevent the detachment of the thills from the axle, and to avoid the applica-tion or use of the ordinary "safety-straps" now employed.

Claim.—The iron A, provided with the hook B, in combination with the eye D, and the bolts C C, or their equivalents, substantially as and for the purpose set forth.

No. 35,171 —R. P. PARROTT, of Cold Spring, N. Y.—Improvement in Hooped Ordnance.—Ante-dated Nov. 6, 1861.—Patent dated May 6, 1862.—The body of the gun does not differ from that of cast-iron guns of the ordinary description, but it is provided with a reinforce consisting of a wrought-iron cylinder formed by cooling a bar of iron upon a mandrel, and welding together the several turns of the coil. The reinforce is heated and placed upon the body of the gun, so as to extend a distance equal to one calibre in rear of the bottom of the bore, and a distance equal to one calibre in front of the charge of powder. The gun is then rotated, and a current of water introduced into its bore, so as to cause the reinforce to contract. By this means great strength is given at the point of greatest strain, without great weight of metal. The screw plug is designed to counteract the strain on the bottom of the breech, and consists of a plug which fits into a corresponding opening in the breech said plug being of larger diameter in the rear than in front, and being provided at that part with a male screw which fits a female screw counter bored in the body of the gun.

Claim.—A gun made as shown and described; the arrangement of the screw-plug c, con-

structed as shown with the said gun, as set forth.

No. 35,172.—Samuel Rainbird, of Norwich, England.—Improvement in Grappling and Raising Sunken Vessels, &c.—Patent dated May 6, 1862.—This invention consists of a method of raising vessels by means of grapping chains, which are made to surround and clasp the vessel, and in connexion with a combination of air cylinders and windlasses. The invention does not admit of a detailed description.

Claim.—First, the mode or modes of grappling sunken vessels and other submerged

bodies, by the peculiar arrangement of chains, as described.

Second, the mode or modes described of raising sunken vessels and other submerged bodies by balancing a portion only of the weight by air vessels and then raising the sunken vesses or other submerged bodies by means of windlasses or similar machinery.

Third, the apparatus described, consisting of air cylinders or vessels divided into compartments traversed by tubes with stoppers for securing the grappling chains and movable escape-pipes or radial tubes for the escape of the water, together with valves capable of being

worked by chains or ropes and other appurtenances, as described.

Fourth, the combination of air-vessels and chains or ropes with windlasses or other lifting machinery, in manner described, for the purpose of grappling and raising sunken vessels of other submerged bodies, by such combined apparatus as described.

No. 35,173.—C. E. RANKIN, of New York, N. Y.—Improved Album Case.—Patent date May 6, 1862.—This invention consists in combining two ordinary daguerrectype cases will a book cover, and with a series of split leaves made to receive photographs or other pictum in such a manner as to form an album case, in which daguerreotypes or ambrotypes, as we as photographic pictures, can be preserved.

Claim.—A new article of manufacture, the described combination of the daguerreoty cases A B, with the photographic leaves D and book cover C, as and for the purpose show

and specified.

No. 35,174.—J. H. REDSTONE and A. E. REDSTONE, of Indianapolis, Ind.—Improvement in Valves for Steam Engines.—Patent dated May 6, 1862.—Reference to the description as drawings will be necessary for an explanation of the construction and operation of the device.

Claim.—First, the hollow valve A, when constructed as set forth and operated in con-

nexion with the steam passages H I and K L.

Second, the valves F and G, when constructed and operated as set forth.

No. 35,175.—E. B. REQUA, of Jersey City, N. J.—Improved Lamp.—Patent dated Ma 6, 1862.—The claim and engraving explain the nature of this invention.

Claim .- First, the combination of the two tubes G J, one placed within the other, at the inner one enclosing the wick tube E, when said tubes are provided respectively will

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mes or deflectors H I, so constructed as to admit of a space e between them, having a arrow passage e' to increase the rapidity of the draught, and cause a quick current of air to spinge against the sides of the flame j, substantially as and for the purpose set forth.

te tountain A, when said cap is used in connexion with the tube G, applied to the burner D, se latter screwed into the jacket or case B, and all arranged as shown, to form a simple

vice to admit of the flame being supplied with a requisite quantity of air at its base, and y a current which passes around the fountain A, to keep its contents cool, as described. Third, insulating the cones H I from their respective tubes G J, by means of plaster of aris, or other good non-conducting cement, for the purpose of preventing the heat being inducted down to the burner and fountain, as set forth.

Fourth, the combination of the two tubes G J, cones H I, wick tube E, cap F, burner D, anch g, jacket or case B, and fountain A, all arranged as and for the purpose specified.

No. 35,176.—A. K. RIDER, of Hydeville, Vt.—Improved Cut-off Valve.—Patent dated lay 6, 1352.—This invention consists in the construction of the cut-off valve, with its ends blique to the direction of the movement of the main valve, and in so applying the said alve to the back of the main valve that it may work transversely thereto without interring with the longitudinal movement of the latter valve, which has the outer orifices of its eam ports arranged obliquely, to correspond with oblique ends of the cut-off valve. This naturation of the valve seats and ports permits the point of cutting off to be varied monghout the whole length of the stroke of the piston by the transverse movement of the at-off valve, either by hand or by the governor.

Claim. - First, the cut-off valve G, having its end or ends oblique to the direction of the ovement of the main valve, and applied to the latter valve in combination with a stem f, or s equivalent, by which it is moved transversely to the main valve, and operating sub-anially as described, in combination with an oblique arrangement of the outer orifices of

e main valve ports, for the purpose set forth. Second, combining the stem f of the so-constructed and applied cut-off valve with a premor, by means of a handle or hand lever l, dog m, a sector plate p, and an arm q, sub-

antially as and for the purpose described.

No. 35,177.—E. Y. Robbins, of Cincinnati, Ohio.—Improvement in Ventilation.—Patent sted May 6, 1862.—This improvement consists in a method of applying the heat to the ntire lower part of the room which it is desired to warm, so that it shall be as warm at the por as at the ceiling. A large metallic warming surface, kept at a low temperature, is ade use of, against which the fresh air, which is afterwards to be admitted into the room, made to circulate, so as to warm it only to such a degree that when it enters the room it iali remain in the lower part, where it is wanted for respiration, and not rise at once to the ning, as in the usual mode of heating.

Claim. - First, the arrangement of the hot-air chamber or reservoir of heat, for warming me floor and lower part of the rooms, in connexion with the arrangement for the introduction the bottom of the room of moderately warmed fresh air which has not been in contact ith the hot metallic surface either of hot-water pipes or steam pipes, or of a stove or

irnace, or any other highly-heated surface, substantially as set forth.

Second, the use of the lower and outer boundary of the hot-air chamber as a large nonetailic warming surface for the purpose of warming, to a moderate degree, the fresh air

store it enters the room, substantially as set forth.

Third, in case of warming the upper rooms by the waste heat of the fire in the lower ory, the arrangement of an inner smoke flue within the brick flue or chimney E, Fig. 3, nd the diaphragm, Fig. 5, for turning the current of hot air rising between this inner smoke ue of the sides of the chimney inward under the floor of the upper room for warming it, or

ny equivalent device between.

Fourth, in using hot air pipes for warming cars or rooms, the making of said pipes in wir different parts of different materials and of different shapes, so that their conducting nd radiating power shall increase as the distance from the furnace or source of heat icreases, and as the temperature of the air within them decreases, so that they shall disabute the heat as nearly uniformly as possible throughout their entire length, substantially set forth.

No. 35, 178.—H. E. Robbins, of Hartford, Conn.—Improvement in Tobacco Cases.—Patent sted May 6, 1862.—In the bottom of the tobacco box is placed some fibrous or porous subance, which is kept saturated with any proper liquid, and over this is placed a perforated ate, so that the vapor arising from the liquid diffuses itself through the tobacco contained the box, and thus keeps it in a moist state.

Claim.—As a new article of manufacture a pocket tobacco box, constructed substantially

the manner as and for the purpose as described.

No. 35, 179.—Warson Sanford, of Brooklyn, N. Y.—Improvement in Dampers.—Patent ated May 6, 1862.—This invention consists in surrounding the stove or furnace pipe with a collar in which is made an opening, communicating with the interior by a register valve. also provided with an opening; said valve is received in a recess formed in a flange attacks. to the pipe collar. By opening the valve, air may be admitted into the stove above the nucl thus regulating the draught, and also ventilating the room.

Claim. -- The valve or register C, when combined with the pipe collar and its flange, sel applied to a stove or heater, for the purposes and substantially in the manner described.

No. 35, 180.—Watson Sanford, of Brooklyn, N. Y.—Improvement in Hot-Air Furnares -Patent dated May 6, 1862.—The object of the first part of this invention is to construct. furnace in few pieces, and thus avoid danger of leakage, owing to the difficulty of for a gas-tight joints. The object of the second part of this invention is to obtain great state and extent of heating surface. The object of the third and fourth part of this invent is provide for the thorough heating and combustion of the gases given off, and also differ a heat equally over the whole fire pot.

Claim.—First, casting the fire pot and dome, or the section between the red lines 11: 2.2, or any greater section, either above the line 1.1, or below the line 2.2, together with the section of the first section of smoke flues or pipes, all in one piece, substantially as and for the purpose

described.

Second, forming the fire pot, as well as the lower section of the dome, with corrug. which shall be continuations of each other, the interior concave parts of which form :exits for the smoke or the commencement of the smoke flues, as and for the purposes at

Third, providing the furnace or heater with an enlarged dome b, in combination with the extension of the corrugations or smoke flues D, by means of the corrugations f, or the equivalents, down to or below the surface of the fuel charge, substantially as set forth.

Fourth, in combination with the enlarged dome and corrugations or smoke flue to

located; that is, extending down to or below the surface of the fuel charge, the distribute of the smoke exits all around the body of the fire pot and near together, so as to make regular corrugations, for the purposes and substantially as indicated.

No. 35,181.—WATSON SANFORD, of Brooklyn, N. Y.—Improvement in Stove Lining.-Patent dated May 6, 1862.—This invention consists in casting the fire pot with two vertex corrugations, and also providing its inner surface with pins and ribs, which project out a late distance and serve to retain and preserve the fire clay more equally, diffuse the heat, and two the fuel from contact with the clay, and thus permit a free circulation of air. This fire put can be used as a guard or lining to a fire pot of the usual construction.

Claim.—First, the pins b, as and for the purpose specified.

Second, the combination of the pins b with the corrugations a or cells or panels c d c, sustantially as and for the purpose set forth.

Third, the combination of the pins b and corrugations a with the ribs h, in the manner \mathbf{x} .

for the purpose indicated.

Fourth, when this invention is used as a guard-plate or lining, the exterior concave port $oldsymbol{arphi}$ f or channels g for the purpose of admitting air between the said guard-plate or lining and =shell of the stove or furnace, as set forth.

No. 35,182.—JOHN SHAEFER, of Lancaster, Pa.—Improved Attachment for Bedstead Rails -Patent dated May 6, 1862.—The slotted plates are attached to the post of the bedstead, wat the hooked plates are attached to the ends of the rails; the position of the plates being to versed in each, so as to cause the diagonal line between the hooks on one end to be in a 4rection opposite to the diagonal line between the hooks on the other end.

Claim.—The diagonal combination of the bevel-slotted plate A with the bevel-hocked p 3:5 B, the whole being constructed and arranged and attached in the manner and for the pur,

specified, substantially as set forth.

No. 35, 183.—D. C. SMITH and W. P. WALLING, of Adrian, Mich.—Improvement is Water Elevators and Conveyers.—Patent dated May 6, 1862.—This invention relates to that of water-elevating and conveying machines in which the buckets or pails are come tocarriages that run on inclined wires or ways from the well or spring to the place desired: wires being suspended by suitable shores.

Claim.—The combination with carriage K of the plate M, arranged to work in joint of the plate M.

tion with spring T, pawl 12, incline planes X X, clamps V V and lug 18, for the purpose set

Also, in combination with the foregoing, the bail 2, rod 3, and cover 4, connected to a as described and for the purpose specified.

No. 35, 184.—II. J. SMITH and WOODRUFF JONES, of Philadelphia, Pa.—Improvenes:

Apparatus for Testing Coal Oils and other Mixed Liquids.—Patent dated May 6, 1842.— This invention consists in determining the amount of volatile inflammable matter in com, liquids by means of a thermometer and a flame, the thermometer being applied to the week while heat is imparted to the latter and the vapor generated by the heat being directed in the

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me, which will cause the vapor to explode, the degree of heat indicated by the thermometer ien the explosion takes place determining the amount of volatile inflammable matter in the uids.

Claim. - Determining the amount of volatile inflammable matter in compound liquids by ans of a thermometer and a flame, the thermometer being applied to the liquid while the at is imparted to the latter and the vapor generated by the heat being directed to the flame, betantially as set forth.

No. 35,185.—J. P. SMITH, of Hummelstown, Pa.—Improvement in Corn Shellers.—Patent tell May 6, 1862.—The shifting breast beam serves to sustain the ears of corn while being and has attached to it a hand lever by which the operator moves it a sufficient distance on the cylinder to let out the shelled cob. This beam is provided with a stem which slides bearings in the frame, the beam being kept against the cylinder by a spiral spring. The eding bar, being situated above the breast beam, serves to hold the ears against the cylinder, ed is provided with a stem sliding in bearings in the frame and attached to a spring, by which e hearn is enabled to accommodate itself to ears of corn of different sizes.

Ciaum.—The shifting breast beam n arranged and operating in combination with the shell-

ig cylinder d, substantially as and for the purpose specified.

Also, the combination of the shelling bar j with the shelling cylinder d and shifting breast ann a, substantially as set forth.

No. 35, 186 .- O. W. STEARNS, of Johnson, Vt.-Improvement in Wooden Tubing .- Patent ated May 6, 1862.—This tubing is constructed of two semi-cylindrical channelled pieces of ood, which are matched together and then secured by wire around them. The joints or xtions are connected by metallic rings or ferrules, and the whole covered with some durable aint or coating.

Claim.—The tube formed by the combination and arrangement of the parts A A, ferrule B, rainer C, matching pieces D D, channel E, and wire F F, or its equivalent, substantially

described.

No. 35.187.—R. VAN ORMER and W. J. BELL, of McAllisterville, Pa.—Improvement in alancing Millstones.—Patent dated May 6, 1862.—The balancing weight which encircles to runner consists of two rods of iron united at one end by a spring, at the other by a screw rovided at each extremity by screw nuts. The spring is placed upon the light side of the one, the screw on the heavy side, and, by adjusting the nuts, a perfect balance is effected bether the stone is at rest or in motion.

Claim. - The combination of the rods R R', spring S, and screw S', in the manner and for

ie purpose shown and described.

No. 35,183.—W. H. WHITE, of Woodbury, Conn.—Improvement in Sheep Shears.—Patent ated May 6, 1862.—By making the different parts of the shears in separate pieces and of ifferent kinds of metal, and then securing them together, the cheapness, lightness, and fectiveness of the shears is increased.

Claim.—The described article called a sheep shears, made substantially in the manner escribed, and consisting of a steel bow, iron handles, and cutting edges, arranged and

ttached to each other substantially in the manner set forth.

No. 35, 189 .- J. P. WALTER, of Brooklyn, N. Y .- Improvement in Vacuum Tanks .- Patent ated May 6, 1862.—This invention consists in the application to the vacuum tanks which re used for cleaning sinks, &c., of one or more air pumps, which are operated by a working cam, receiving its motion from an eccentric attached to one of the wheels of the truck that apports the tank, in such a manner that the air can be exhausted from the tank while it is liven to the place where the contents are deposited, so that it can, after being emptied, be *41v to receive a new charge. Attached to the tank are suitable reservoirs containing suitable icids or charcoal through which the air, as it is exhausted from the tank, is forced and thereby leprive 1 of its offensive qualities.

Claim. -First, the arrangement of one or more air pumps B in combination with the wheels D D', eccentrics j, and working beams i, or their equivalents, and with the tank A, constructed

and operating substantially in the manner and for the purpose shown and described. Second, the arrangement of one more reservoirs E, containing suitable chemicals, in compination with the air pumps B and tank A, substantially as and for the purpose set forth.

No. 35, 190.—Chas. Wadsworth, of New York, N. Y .- Improvement in Car Ventilators .-Patent dated May 6, 1802.—By means of believes operated by crank shafts and connecting rods attached to the axies of the car, air is forced into the car, and is freed from dust by puring from the air-boxes through the screens of cloth or other suitable material.

Claim.—The combination of the air-filtering screen I and air-chamber d with the air-

forcing bellows, substantially as and for the purpose shown and described.



No. 35,191.—J. B. WINCHELL, of Chicago, Ill.—Improvement in Sewing Machines.—Patent dated May 6, 1862.—This invention consists in so arranging a double-thread sewing machine, which employs a pointed hook or interlocking device, that it continuously sews cloth or other material without changing the direction of its feed or the character of the sewing, whether the mechanism intermediate to the driving shaft and the shaft of the lower thread-locking device is set in motion by a forward or backward revolution of the main shaft. The invention consists also in constructing a lower thread-case of nearly cylindrical form between its ends, and of rounded form at its termini, and with a movable axial pin, the said case being arranged between the two desks, one of which has a concave face, and the other a partially cylindrical concave face, so that an ordinary spool of cotton may be used instead of a bobbin, and also the loop of the needle may be carried entirely around the case in a manner to effect an interlock of the upper with the loop of the upper thread.

Claim.—First, a sewing machine organization which will interlock two threads and sew continuously in the same direction without changing the direction of feed or the character of sewing, with a single pointed hook or interlocking device, substantially as described, whether the connecting mechanism intermediate between the upper needle and the hook or interlocking device is set in motion by either a back or forward revolution of the main shaft, substantially as the contract of the main shaft, substantially as the contract of the main shaft, substantially as the contract of the main shaft, substantially as the contract of the main shaft, substantially as the contract of the main shaft, substantially as the contract of the main shaft, substantially as the contract of the main shaft, substantially as the contract of the co

tially as set forth.

Second, the combination of the specified lower spool case and the specified disks between which it is arranged, and all the remaining specified operative parts of mechanism, substan-

tially as and for the purposes set forth.

Third, the combination of the angular slotted extension of the needle arm, slotted connecting rod R, main shaft Q, rod T, segment arm O', and pinion N, or their equivalent, substantially as and for the purposes set forth.

No. 35,192.—G. L. WITSIL, of Philadelphia, Pa.—Improved Nutmeg Grater.—Patent dated May 6, 1862.—This invention consists in the combination of a vertical, rotary grating-cylinder, supported within a smooth cylindrical vertical case which has one side opening into a conical, tapering chamber rigidly attached thereto, and adapted for receiving and holding securely whole or pieces of nutmeg whilst the same are being operated upon by the rotating cylinder.

Claim.—A nutmeg grater consisting of the case A, chamber A', and cylinder B, arranged

and combined together, substantially in the manner described and set forth.

No. 35,193.—J. P. Woodbury, of West Roxbury, Mass.—Improvement in Arming West Vessels.—Patent dated May 6, 1862.—This invention consists in arming a vessel-of-war, having an iron-plated, convex deck, and designed to be partially submerged when in action, with guns designed to be fired under water. These guns are breech-loading, and the part which projects from the ship slides in a stuffing-box, thus enabling it to be drawn back and forward in order to be loaded. As the guns are designed to be discharged only when near the enemy's vessel, no other motion than a longitudinal one is necessary for aim. In order to prevent firing against the solid column of water which would occupy the space in the gun from the load to the muzzle, that space is filled with an air-tight case, which may be made to enclose the projection and charge.

Claim.—First, the employment of a gun or guns, constructed and operating substantially as described, in a ship so constructed and defended with armor-plates, or their equivalent, that the ship may approach an enemy with reasonable safety, substantially in the manner and for

the purpose described.

Second, combining a gun, constructed and employed in a vessel as described, with an appropriate gun-carriage to support the breech; a socket and stuffing-box in the side of the hull to support the muzzle, and an external port or shutter, or other devices equivalent thereto, to enable the gun to be worked substantially as described.

Third, displacing the water from the bore of the gun between the charge and muzzle by

means of air-tight displacing case, or its equivalent, substantly as described.

No. 35,194.—A. E. Young, of Dorchester, Mass.—Improved Reflecting Lantern.—Patent dated May 6, 1862.—The claim and engraving explain the nature of this invention.

Claim.—A glass lantern body, as constructed, with a lateral neck and opening or socket, arranged relatively to its top and bottom necks and openings, and for the reception and fixation of a reflector, substantially as specified.

No. 35,195.—ERASTUS YOUNG, of Penataquit, N. Y.—Improved Washing Machise.—Patent dated May 6, 1862.—This invention consists in the arrangement of a hand-lever, whose fulcrum pin is adjustable in two lugs, provided with a series of holes, in combination with toggle arms and with an oscillating pressure board, in such a manner that by changing the position of the fulcrum of the hand-lever, the pressure board can be adjusted for clothes of different size and of different fabric, and thus they can be subjected to any desirable pressure.

Cleim.—The arrangement of the adjustable fulcrum pin f, in combination with the handever C, toggle arms D, pressure board B, and suds box A, all constructed and operating as and for the purpose set forth.

No. 35,196.—C. F. Allen, of Paw Paw, Mich., assignor to Himself and C. B. Beebe, and H. Taylor, of the same place.—Improvement in Car Bumper and Draw-head Springs.— Patent dated May 6, 1862.—This bumper consists of a cylinder filled with pieces of Indiaubber of any form, and provided with a follower or piston.

Claim.—A car bumper or draw-head spring, constructed substantially in the manner and

or the purpose set forth.

No. 35,197.—VICTOR BARON, of Tabanco, St. Salvador, assignor to Himself and W. W. W. Wood, of Philadelphia, Pa.—Improvement in Concentrating and Cleaning Ores.—Patent dated May 6, 1862.—The ore is fed to an inclined trough, whose concave channel gradually diminishes in depth and width towards the end, having a reciprocating motion given it, and placed within a box divided into compartments which are filled with water. The earthy and lighter portion of the ore is washed into the compartment nearest the hopper, while the heavier and richer portions of the ore pass down from the middle and deepest portion of the channel, and escape from the end of the trough to the rear compartment.

Claim.—Concentrating and cleansing ground or pulverized ore by causing it to pass along

in agitated channel submerged in water, substantially as set forth.

No. 35,198.—HIRAM CARPENTER, of New York, N. Y., assignor to H. V. GAHAGAN, of be same place.—Improvement in Construction of Railways.—Patent dated May 6, 1862.— This invention consists in fitting the cross-ties and pedestals, together with a socket or lock sint, and in combining them with chairs that conform to the section of the rails and hold hem securely without the usual taper keys or wedges. India-rubber or other elastic mate-ial is interposed between the parts in such a manner as to admit of easy access, and permit he adjustment of the track without disturbing the pedestals or ballasting of the roadway. Claim.—The combination of the pedestals with wrought-iron cross-ties and chairs, or their quivalents, and either with or without the addition of any elastic material, substantially in he manner described and for the purpose specified.

No. 35,199.—H. B. GILL, of Ogden, N. Y., assignor to ERASTUS TURBOX, of the same ace-Improvement in Machine for Packing Apples.—Patent dated May 6, 1862.—This evention consists in securing to the cross-head, which forms the nut of the screw used for ressing down the heads of barrels; a pair of elastic clamps provided with hooks, which, then the clamps are put over the barrel, hook over the chime and thus form a secure and

sily adjustable support for the cross-head.

Claim.—The combination of the spring hook clamps B B, with the cross-heads A, screw l, and follower E, substantially as and for the purposes specified.

No. 35,200.—C. D. INGRAHAM, of South Falls, Mass., assignor to Himself and C. A. and BARDWELL, of the same place.—Improvement in Straw and Hay Cutters.—Patent dated lay 6, 1862.—By means of the arrangement of the parts named in the claim the hay or straw in be cut in pieces of greater than usual length, and the machine at the same time be selfading, one set of knives cutting, while the other set is feeding the straw.

Claim.—A cylinder of knives formed by having the knives arranged in sets or pairs which to shorter than the cylinder, and attached thereto in such a manner that the knives of one st or pair will be out of line with or in different planes from those of the other set or pair, in used in connexion with a cylinder E, or its equivalent, substantially as and for the pur-

ose set forth.

No. 35,201.—JOSIAH MASON, of Birmingham, England, assignor to E. C. and J. H. RATT, of Philadelphia, Pa.—Improvement in Boxes, Cases, and Cards, for Pens, &c.—atent dated May 6, 1862.—The nature of this invention is explained by the claim.

Claim.—A box, case, or card, having a recess or recesses either permanent or formed by satic surfaces, and having suitable fastenings for receiving and holding a sample or samples the articles contained in the box, or in the case, or a card, for holding the articles themtives, as set forth for the purpose specified.

No. 35,202.—JOSEPH MOORE, of San Francisco, Cal., assignor to the VULCAN IRON FORKS, of the same place.—Improvement in Ore Crushing Mills.—Patent dated May 6, 102.—The ore is fed to the grating where it is exposed to the action of the stamps, and after eing crushed, passes through the grating to the elevator, by which it is conducted to the Teen, through which latter the finer portions pass, and the coarse portions pass from the

reen to a pipe by which they are conducted again to the grating.

Four iron rods are placed in each corner of the mortar bed and are strengthed by cross rods; less form the frame of the machine. Secured to the rods are guides for the stampers, and

etween the rods is placed a sheet-iron shrouding which boxes in the mortar bed.

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Claim.—First, the combination of the stampers F, grating H, elevators V, and screen Y, arranged for joint operation as and for the purpose set forth.

Second, the construction of the frame of the machine, to wit, the rods I braced by the cross rods J, the shrouding M attached to rods I to form the mortar box, and the guides L L fitted on said rods I, as set forth.

No. 35,203.—J. S. SCHUYLER, of New York, N. Y., assignor to J. J. ECKEL, of the same place.—Improvement in Baling Press.—Patent dated May 6, 1862.—The object of this invention is to obtain a press of the class in which racks and pinions are employed for operating the plunger or follower, which will admit of having its plunger or follower operated by a direct application of power to the driving shaft by means of cranks, so that speed may be obtained when pressure is not required, as for instance, in moving the follower to and from its work, and also admit of having the power applied through the medium of clutches in such a manner that the two operators may work at opposite sides of the driving shaft, and one press upward while the other presses downward, in order to obtain uniform application of power.

Claim.—The two rack bars B' B', attached to the plunger or follower B, in combination with the gearings a a, E E, F F, and shaft C, all arranged and applied to the box A, to operate

as and for the purpose set forth.

Also, the fast and loose ratchet collars e g. placed on the shaft C and the collars g, arranged with springs i and levers G, substantially asshown, when said collars are used in connexion with the gearing and rack bars described, as and for the purposes specified.

No. 35,204.—E. W. SEYMOUR, of Lisle, N. Y.—Improvement in Method of Constructing Carriages.—Patent dated May 6, 1862.—This invention consists in the arrangement of springs running lengthwise and fastened behind to the axle, and in front to a spring bar, and supported by a relieving bar, having a joint at each end, running parallel with the springs fastened to the centre of each spring on the under side, and attached to the axle behind. The springs are supported in front by the boot which is fastened to the spring bar, and are also

connected by a joint to the under side of the seat.

Claim.—The peculiar construction and combination of springs running lengthwise, and attached behind to the axle, when connected with relieving bars behind, and both acting as relieving bars in front and operating in conjunction with each other, and from the centre each

way, forming a reach and saving the springs from the tension of the draught.

No. 35, 205.—W. T. ABELL, of Vernon, Iowa.—Improvement in Machinery for Spinning Wool.—Patent dated May 13, 1862.—This invention relates to a method of producing a draught and twist simultaneously in the same portion of the roping or yarn. The spindles draught and twist simultaneously in the same portion of the roping or yarn. are each made with a wide opening for the reception of a drum and spool which are fastened to shafts or axies passing through slots in the sides of the opening of the spindle. The spool is caused to bear on the top of the drum by means of springs attached to the sides of the spindles. The portion of the spindle above the opening is hollow for the passage of the roping from the drawing rolls to the spool upon which it is to be wound. The shalt of the dram is furnished at one end with a bevel gear e, and at the other end with a wheel which serves as a counter balance to the bevel gear s in the rotary motion of the spindle. The bevel gear s engages with a bevel gear g, which is fitted to turn loosely upon the spindle below the open part thereof. Attached to the upper part of the spindle is a vibrating guide consisting of s bent lever with an eye at its lower end for the purpose of guiding the yarn to the spool. The upper end of the guide is situated close under a vertically moving guide rail, against which it is pressed in contact by a spring.

Claim.—First, the arrangement within the spindle D of a spinning frame of a speel b, applied relatively to and operating in combination with a pair of rolls G G', substantially as and

for the purpose specified.

Second, giving motion to the so-applied spool b by means of a drum a arranged within the spindle, a gear e upon the said drum, and a gear g rotating loosely upon the spindle, substantially as specified.

Third, the employment, in combination with the spindle containing the so-applied speed b, of a vibrating guide L v, and a vertically-moving guide rail C, applied and operating together substantially as and for the purpose set forth.

No. 35,206.—H. K. Averill, Jr., of Decorah, Iowa.—Improved Photographic Plats Holder.—Patent dated May 13, 1862.—This invention consists in constructing the plate holder for supporting the sensitized glass or other plate in the camera of a single piece of porcelain or other suitable material, having on each side of its interior two or more sharpedged projections extending from back to front, and at the back of each corner supporting points to support the back of the plate, for the purpose of preventing the collection of the sensitizing solution on the plate, and to protect the plate from stains.

Claim.—The plate holder composed of a solid frame provided with points bb and edges a a.

substantially as and for the purpose specified.

No. 35,207.—H. A. BARNES, of Milwaukie, Wis.—Improvement in Shackles for Railroad Cars.—Patent dated May 13, 1862.—This invention consists in the addition to the shackle formed as usual, of a handle or half shackle secured thereto at right angles at its centre, for the purpose of more readily and safely handling the same.

Claim.—The employment of a handle c with a common shackle c, in combination with the

drawheads a, substantially in the manner and for the purpose as described.

No. 35,208.—J. J. BARRETT, of Georgetown, D. C.—Improved Refrigerator.—Patent dated May 13, 1852. - Within the chest is placed a detached crib for holding the ice, around which is a case closed at its sides so as to admit of the circulation of air between it and the crib. Below the crib is a dripping plate provided with an opening at its centre; and having underneath a receiving vessel provided with a pipe for conveying off the water.

Claim.—The arrangement of the movable crib C and it's case C', in combination with the dripping plate E and receiving box F, substantially as described.

No. 35,209.—J. C. BIRDSELL, of West Henrietta, N. Y.—Improvement in Threshing Clover and Hulling and Cleaning the Seed.—Patent dated May 13, 1862.—This invention consists in the employment of a vibrating table placed under the bolts or screens for conveying the separatel bolls, seed, and chaff to the hulling cylinder. Between the screens and tailing trough is an anged a spout or trough, for the purpose of catching all matter heavier than the chaff and tailings. On the top of the machine, and over the feeding rollers of the hulling cylinder, is a trough provided with a spiral conveyor which distributes the chaff and tailings from the elerator uniformly upon the feeding rollers and the hulling cylinder, by which the chaff, &c., are operated upon a second time. Fastened to the frame are standards in which a crank shatturns and operates a rake, the teeth of which work between the teeth of a comb on the upper screen, for the purpose of picking the threshed clover to pieces when it is green or moist, and shaking out the bolls, seed, and chaff.

Claim —In combination with the hulling cylinder, the vibrating or traversing table L under the bolts or screens for conveying the bolls, seed, and chaff separated from the straw to the

halling cylinder, substantially as described.

Also the spout, or trough T, between the screens and tailing trough, for the purpose specified.

Also, the spiral conveyor W', in combination with the hulling cylinder, for distributing

the tailings from the elevator uniformly to the feed rollers and hulling cylinder.

Also, hanging the bolts or screens H' H" on swinging arms and springs, when the bars or ams I I are hung in the centre so as to move the screens in opposite directions by the same crank and link.

Also, in combination with the hulling cylinder, the feeding rollers P P, for the purpose

specified, substantially as described.

Also, one or more rakes N' in combination with the comb or combs on the bolt or screen, for the purpose specified.

No. 35,210.—MARTIN BISHOP, of Washington, D. C.—Improved Combination of Fuel Box and Washing Apparatus with Settees.—Patent dated May 13, 1862.—This invention consists in constructing a settee with a front part, bottom, and sides, and dividing it into different compartments so as to form a combined settee, fuel repository, and washstand.

Claim.—As a new article of manufacture, a combined settee, fuel repository, and wash-

stand, constructed and arranged as drawn and described.

No. 35,211.—J. H. BLOODGOOD, of New York, N. Y.—Improvement in Machinery for Drawing and Spinning Wool.—Patent dated May 13, 1862.—This invention relates to the use of front drawing rolls having an intermitting action for the purpose of allowing the twist to run back from the spindles to the delivery rolls, and it consists of an apparatus composed princi-Many of two surfaces, between which the yarn passes, and one of which moves toward and from the other to seize the roving or yarn before each intermission in the action of the drawing robs takes place, and liberate it immediately after the resumption of the action of the rolls.

Claim.—The employment in drawing and spinning frames, in combination with drawing

nds, having an intermitting action of an apparatus consisting of two surfaces, of which one has a movement toward and from the other, and which operate substantially like the surfaces

of d and e, for the purpose specified.

No. 35,212.—CLAUDE BRISON, of Chalons sur Saone, France.—Improvement in Furnaces of Retorts, Stills, &c.—Patent dated May 13, 1862.—This invention consists in providing the ovens, kilns, or furnaces, either conjointly or not, with the ordinary horizontal retorts used in the manufacture of illuminating gas or other similar operations, with one or more vertical morts of a cylindrical or other suitable shape open at the top and bottom, the said openings to be hermetically closed at pleasure, the top one by a lid and the bottom one by a corresponding "obturator," or movable bottom, jointed at one end of a counterpoise lever turning in in table brackets, so as to admit of the lower opening being closed when the retort is to be filial, or opened when the same is to be emptied.

Claim.—Providing ovens, kilns, or furnaces, in which retorts are or may be made use of for various manufacturing or other purposes, with vertical retorts, each having a suitable lid and a movable bottom or obturator, the latter jointed to a lever for allowing to open or shut at pleasure the lower opening of the retort, substantially as described and for the purposes specified.

No. 35.213.—S. H. Brown, of Troy, N. Y.—Improved Hydrant.—Patent dated May 13, 1862.—Connected with the supply pipe is an upper valve box, in which is arranged a pupper valve, and within a lower valve box is arranged a slide valve having upon its front face a groove corresponding with a post in the discharge pipe. The sliding valve is operated by means of its stem projecting through a slot in a cap of the lower valve box and through a hole in the lower end of the valve rod, by means of which, stuffing boxes may be dispensed with. The grooves in the front face of the sliding valve admit of the waste water in the discharge pipe, which is above ground and subject to the frost, passing off freely. The valves are operated by means of a double-armed lever working in inclined slots or planes formed between sections of the cap so as to secure a regular and gradual action of the valves and prevent reaction and bursting of the pipes.

Claim.—First, the valve a, in combination with the sliding valve D, when constructed and

arranged so as to operate, substantially as described.

Second, the sliding valve D, with its adjuncts K E and i, whereby it and the valve a may

be operated without the use of stuffing boxes, substantially as described.

Third, the grooves in the face of the sliding valve D, whereby the waste water in the discharge pipe is allowed to pass off, for the purpose and substantially as above set forth. Fourth, the inclined planes n and o, in combination with the double-armed lever M, as and for the purposes described.

No. 35,214.—CHARLES CAMPBELL, of Yellow Head, Ill.—Improved Machine for Breaking Broom Corn.—Patent dated May 13, 1862.—This invention consists in the employment of revolving beaters, stationary adjustable break irons or bars, and a guard shield for the beaters, so arranged as to break the standing stalks as the machine is drawn between the rows preparatory to the harvesting thereof.

Claim.—First, the revolving beaters H and stationary bars or break iron I, placed on a mounted frame A, and arranged to operate as and for the purpose shown and described.

Second, the combination of the revolving beaters H, bars, or break iron I, and guard or shield K, all arranged or placed on a mounted frame A, for joint operation as and for the purpose set forth.

No. 35,215.—W. J. CANTELO, of Philadelphia, Pa.—Improvement in the Application of the Hibiscus Moscheutos to the Manufacture of Paper and Other Purposes.—Patent dated May 13, 1862.—The nature of this invention is explained by the claim.

Claim.—The application of the fibres of the American plant known as the "Hibiscus Moscheutos," or "Hibiscus Palustris" to the manufacture of paper, cordage, textile fabrica, &c., as set forth.

No. 35,216.—John Carton, of Utica, N. Y.—Improvement in Heaters.—Patent dated May 13, 1862.—The fire pot is formed in two nearly equal parts or sections so as to obviate is liability to break by expansion or contraction during the piecess of heating and cooling.

liability to break by expansion or contraction during the process of heating and cooling.

Claim.—The fire pot, composed of the sections B and C, constructed and operating substantially as described.

No. 35,217.—C. C. Coleman, of Worcester, Mass.—Improvement in Breech-loading firearms.—Patent dated May 13, 1862.—To the lower rear corner of the breech is proted the rear end of the trigger guard lever, furnished above the pivot with a bolt working in the arc of a circle, and entering a hole in the part of the breech frame behind a slot in the rear of the barrel, by means of which the breech is locked as soon as closed.

Claim.—The breech C swinging on a pin b at the bottom of its front end, and having attached to the bottom of its rear end by a pin c a trigger guard lever D, constructed with a bolt d to lock into the frame A and secure the breech in a closed condition, the whole

operating substantially as specified.

No. 35,218.—CICERO COMSTOCK, of Milwaukie, Wis.—Improvement in Rotary Ploughs.—Patent dated May 13, 1862.—The wheels to which the shafts of the teeth are connected early with them in their rotation the main axle, which has its bearings in cams attached to the frame of the machine. The shafts which carry the teeth or spades are hung inside the periphery of the wheels, so as to prevent their coming in contact with the ground, and are alternately actuated by the cams, the shaft having the handle g pivoted to the inner side of the wheel being acted upon by the cam on one side, and the shaft having the handle handle handle g plays in a slot in the wheel, and has on its end a friction roller which traverses the groove of its cam, while the shaft having the handle has a friction roller which traverses the groove of its cam.

Claim.—First, having the spade or fork shafts inside of the periphery of the wheel, as set

forth.

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Second, connecting the tooth or spade to the shaft forward of the shaft, as recited. Third, the introduction of India-rubber between the box or cap of the tooth and the shaft,

to give elasticity and protection to the tooth and shaft, as described

Fourth, the hinge sections of the cams for allowing of the folding up of the forks or spades. Fifth, hanging the spades or forks' shaft to the wheels or arms by the handles, as described. Sixth, providing that part of the cam which receives the pressure of the spade or forks' shall with the spring or elastic bearing.

No. 35,219.—A. B. COOLEY, of Philadelphia, Pa.—Improvement in Adjustable and Reversible Propellers.—Patent dated May 13, 1862.—This invention consists in so constructing the propeller, in connexion with arms and links and a sliding ring operated by a lever, that the direction of the blades may be instantly reversed, so as to convert the propeller from a righthanded to a left-handed screw, thereby effecting a change in the direction of the vessel with-

out changing the continuous rotation of the propeller shaft.

Claim.—The blades H and H', arms G and G', links E and E', the sliding ring F and ring J, when the whole of the above parts are arranged on the hollow hub or casing D for just action, as set forth, and when the said ring J is operated by the links M and M' and

lever N, or their equivalents, as specified.

No. 35,220.—JOHN DANNER, of Canton, Ohio.—Improved Washing Machine.—Patent dated May 13, 1862.—The interior of the box is provided with a circular rubbing apparatus formed by slats secured to the end pieces. Within the slatted cylinder is hung a grooved or stated rubber obliong in section, the shaft passing through near one edge in order to give it an acceptric motion, which prevents its liability to clog as the clothes are operated upon.

Claim.—The combination of the inner oblong hinged rubber M with the slatted revolving

cylinder, substantially as set forth.

No. 35,221. J. T. DAVY, of Troy, N. Y.-Improvement in Stores .- Patent dated May 13, 1902.—Above the top of the coal pot and below the door is arranged a plate extending from the casing inwardly and downward over the descending flue, and within the rim of the coal pot, so as to cut off the direct downward draught from the combustion chamber and the descending flue. Across the gas passage leading to the direct draught, and between the coal pot and the combustion chamber, is arranged a movable perforated plate for the purpose of intercepting and reflecting a portion of the heat and gases back upon the coal. The upper part of the coal pot forms an air heating chamber communicating with the atmosphere by any suitable air passage, and also with the descending flue by a series of small holes in its outer side, for the purpose of supplying heated atmospheric air to promote combustion within the descending flue.

llum.—First, the particular arrangement of the deflecting plate I, in combination with the coa pot A, reverting chamber F, and radiating flue C, in communication with the draught ppe D, as and for the purposes shown and specified.

Second, the arrangement of the movable perforated plate O across the gas passage k, between the coal pot A and reverting chamber F, in combination with the lateral gas passage j, below the chamber F and the radiating flue C, communicating with the exit pipe D, as and

for the purpose described.

Third, the arrangement of the series of small apertures t, or their equivalent, in the outer ade of the chamber P communicating with the open air, and forming the top or rim of the to i pot A in combination with the expansion channer F, lateral gas passage j, and radiating the C, communicating with the draught pipe of the stove, as and for the purpose set forth.

No. 35,222.—L. P. Dodge, of Newburg, N. Y. Improvement in Pumps.—Patent dated May 13, 1862.—This invention consists in arranging the ball valves in valve chambers divided by a partition in the lower portion of the air chamber, extending from which to each and of the barrel of the pump, are two discharge pas ages provided with a valve seat in the same plane with the top of the barrel. This construction is designed to avoid making more than one joint, and that a small and easily adjusted o. e.

Claim.—First, the arrangement of the valves M N in the valve chambers K L in the base of the air vessel H, and arranging the seats f g near the joint between the parts, so that there is but a single joint of small area connecting the passages F G with the air chamber,

al as set forth and for the purpose specified.

Second, in combination with the foregoing, arranging the joint connecting the air chamber and the cylinder casting in the same plane, so that both may be finished at one operation, as set forth.

No. 35,223.—J. K. DUGDALE, of Richmond, Ind. Improvement in Cultivators.—Patent dated May 13, 1862.—This invention consists in the employment of two or more vertically alding frames provided with cultivator teeth, knives of drill teeth, &c., and attached to the front part of a frame mounted on a wheel or wheels. The sliding frames are raised and lowered to adjust the ______wator, &c., to the proper depth by means of a pinion wheel working in a rack on the frame, and connected by a rod to a perforated plate attached to the rear end

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The rod is held in position by means of a pin passing into the holes of the of the frame.

plate and secured by a spring.

Claim.—The arrangement and combination of the adjusting apparatus composed of the perforated plate G, pin and spring I, rod F, with pinion E, working in rack e, substantially as described and for the purposes set forth.

Also, the combination of the device or guides D' with the frames B and C, as and for the

purpose set forth.

No. 35,224.-A. S. FISHER, of Millville, N. Y.-Improvement in Weather Strips.-Palet: dated May 13, 1862.—Within a groove in the lower edge of the door is a metal box, in what is fitted a square metallic bar, which is allowed to play freely through a hole in one end of t and so arranged, in connexion with arms and a rubber strip, that, as the door closes, the projecting end of the bar enters a recess formed in the jamb of the door frame and is gradual, forced inward, while the India-rubber strip is at the same time forced down closely upon the door sill. A spiral spring operates to draw up the strip when the door is opened.

Claim.—The arrangement of the horizontal spring f and the arms h i with the bar E, sup

F, and jambs B B', as and for the purpose shown and described.

No. 35,225.—PAUL FLECHET, of Paris, France.—Improvement in Sun Dials.—Pater dated May 13, 1862.—This invention is designed to indicate the hour in true and near time without the aid of a table of corrections, and also the meridian as well as the latitude of 🔄 spot where it is used, being self-verifying. A reference to the specification and drawing w. be necessary for an understanding of its construction and operation.

Claim.—The improvements in solar time-keepers or chronometers, substantially as 🖈

scribed.

No. 35,226.—H. A. FOWLER, of Afton, N. Y.—Improvement in Instrument for Draughting Ladies' Dresses.—Patent dated May 13, 1862.—This invention consists in the employment of strips of metal, or other suitable material, provided with slides and figures for the purpose of taking measures for cutting out or draughting ladies' dresses.

Claim.—First, connecting the chest rule f, shoulder rule d, arm rule c, neck rule s. as:

shoulder piece b, for draughting the front, as described.

Second, the adjustable dart attached to the chest rule f by the slide g.

Third, connecting the form j with the chest rule k, arm rule l, and shoulder rule m, substantially in the manner set forth and described.

No. 35,227.-J. S. FOWLER, of Peoria, Ill.-Improvement in Corn Shellers.-Patent dated May 13, 1862.—This invention consists in the employment of a toothed cylinder, below when is placed an elastic or yielding cylinder in connexion with an endless discharging aproxact a shoe, provided with a screen or screens. By means of a horizontal conveying screw and an elevating screw, the corn and cobs are carried upwards, the corn being discharged for the ends of the trough, while the cobs are carried off by the endless apron.

Claim.—First, the toothed cylinder C, in combination with the jointed and yielding start or grated concave E, screen or screens G, with a shake motion given it as described, and the endless discharging apron K, all arranged for joint operation as and for the purpose set and

Second, the combination of the screws or spiral conveyors T Y with the cylinder C, un cave E, screen or screens G, fan N, and discharging apron K, and feeding apron A. arranged as and for the purpose set forth.

No. 35,228.—EDWARD FROST, of Georgetown, D. C.—Improvement in Car Truck. Patent dated May 13, 1862 —The nature of this invention is explained by the claim.

Claim.—First, the constructing the axle boxes within the jaws of the slide pedestal. C. 4 any arrangement of the axle ends equivalent thereto, so as to permit a limited play transvive of the axle to the axle ends, in combination with the use of fixed wheels of conical tree! It

Second, the arrangement of placing the pedestals E E and journal boxes F F at the comtres of the axles, for the purpose of propelling the rolling parts by traction applied at o: 34.5 their centres of gravity.

No. 35,229.—J. C. & A. P. GARRETSON, of Jackson, Iowa.—Improvement in Louis = Patent dated May 13, 1862.—The shedders are contained in an oblong square box secure : the centre of cross pieces of the framing, the box being provided with a movable bottom 1.15 which the shedders rest, and a spiral spring undernea.h. As the driving wheels no are the lathe is operated by connecting rods, and the shedding bar is pressed through the sa ders, when the bevel point comes in contact with the shedder No. 1, which is civis eshedders Nos. 2, 3, and 4 are depressed, which makes one shed. The incline on the said bar having come in contact with the right hand upright of the sliding trame, the target moved to the right hand over one tooth of the rack bar, which holds the frame seed of that point.

Claim.—First, the oblong box, combined with its movable bottom, to hold the slain. and in which they operate, constructed substantially as described and for the purposes Digitized by **GOO**

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Second, the shedders, attached to their harness frames, combined with the shedding bar to reduce a shed in the web, the same being constructed and operating substantially as decrebed and set forth.

Third, combining the sliding frame with the rack and dog to vary the shed in the web, perming substantially as described and set forth.

No. 35,230.—WILLIAM GIBSON, of Fort Wayne, Ind.—Improvement in Fences.—Patent lated May 13, 1862.—This invention consists in arranging the uprights on the ends of the sately of the fence, in connexion with the longitudinal rails, so as to project beyond the nds of the rails, which are secured to them, and so as to catch over the ends of the rails of the adjoining panel, leaving a space between the ends of the rails, so that the fence will of int itself to uneven ground. Gibs and keys are passed through mortises in the uprights and between the ends of the rails, so as to firmly secure the panels and not interfere with the distinct of the fence to the uneven surface. The upper ends of the braces and lower sizes of the upper rails are provided with notches for holding the parts together without late.

Claim.—First, the space a formed between the ends of the rails B B', and between the

aprights A A', in the manner and for the purpose shown and described.

Second, the employment of gibs b and keys c, in combination with the uprights AA'A'A', and passing through the spaces a between the ends of the longitudinal rails, as and for the surpose set forth.

Third, the arrangement of the notches e and g in the braces D, in combination with the whites f in the lower edges of the upper rails, and with the upper edges of the lower rails, all constructed and operating as and for the purpose specified.

No. 35,231.—CHARLES GOODYEAR, Jr., of New York, N. Y.—Improvement in the Manufacture of Casters from Vulcanizable Compounds.—Patent dated May 13, 1862.—This inventon is explained by the claim.

Claim.—First, the manufacture of wheels or rollers of a fibrous compound of vulcanized

nd:a-rubber or other vulcanizable material, substantially as described.

Second, the manufacture of wheels or rollers of vulcanized India-rubber or other vulcanizale material, by forming and vulcanizing the same in moulds, substantially as described.

No. 35,232.—J. W. GRIFFITHS, of Philadelphia, Pa.—Improvement in Navigable Vessels.— atent dated May 13, 1862.—This invention relates to a change of form of the transverse ection of the midship bodies of vessels, and it consists in compensating for the loss of avoyancy at the bilge, consequent upon its rotundity, by commencing the bilge lower own the sides, and extending below the usual base line to any point not below the bottom the keel, but below a horizontal line with the top of the keel.

Claim.—The construction of navigable vessels with a drop or downward extension of the

Claim.—The construction of navigable vessels with a drop or downward extension of the algebelow a straight base line, at the midship cross sections, substantially as shown and secribed, so as to compensate for the loss of buoyancy consequent upon the rotundity of the

i.ge, all as set forth.

No. 35,233.—Benjamin Harnish, (miller,) of Pequea, Pa.—Improvement in Water Facels—Patent dated May 13, 1862.—The casing is formed of three sections, the upper one of which has perpendicular sides, and a flange or rim parallel with the top, and constituting entrainer box for the wings of the bucket. Below the upper section is an inverted conical ection, to which, as also to the lower section, the spiral descending wings of the buckets are locky adapted, forming spiral chutes between the buckets on the vertical cylinder. On the open the casing, and forming a part of it, is an open cylinder of sufficient height to prevent he water within the penstock from entering through it into the casing. Extending downwards and inwards, half way the depth of the buckets, are check plates or partitions, so as a prevent the water from striking the cylinder above, and cause a vortex by the atmospheric results through the upper open cylinder to be exerted on the outer edge of the spiral

Claim.—The composite casing F G H, with its open cylinder E, in combination with and usely adapted to the buckets N, with their outer flange or square terminus M, and parameter spiral chutes O, and the position and attachment of the check plates P between them, a combined and arranged substantially in the manner and for the purpose specified.

No. 35,234.—D. M. HARRIS and S. S. BURNET, of Salem, Mass.—Improved Clothes Triager.—Patent dated May 13, 1862.—Each end of the shaft of the upper roll is clasped by 1854 p which is bent in the form shown in the engraving. The strap is then connected at 1854 at portion with a clutch by means of a rod having a screw at its lower end, to which is 3544 a thumb nut, which, in connexion with a spring, serves to secure the device to the tub, 445 give the rolls any required pressure.

Com.—The combination and arrangement in a clothes wringer of the strap e attached to be ends of the shaft of roll e', working in the slotted boxes e' of the rol h, the thumb nut i, where spring j, and clutch g, operating together in the manner described for the purpose-

pecified.

No. 35,235.—Simon Heiter, of Philadelphia, Pa.—Improvement in Tents.—Patent dated May 13, 1862.—The nature of this invention is explained by the claim.

Claim.—A tent having expanding and contracting ribs like an umbrella frame, to which are permanently attached the canvas top and sides, the whole being constructed and operating substantially in the manner set forth.

No. 35,236.—WILLIAM HOPPER, of Onion Grove, Iowa.—Improvement in Wind Wheels.— Patent dated May 13, 1862.—This invention consists in the arrangement of a longitudinally sliding rotary rod connecting with a cross-head, to which motion is imparted either by hand or by the action of a wind board and by an endless chain, in combination with ropes or lines leading from the outer end of the said sliding rod to the sails, in such a manner that by imparting to the rod a longitudinally sliding motion, the sails are either drawn in or drawn out, as the case may be, and that by combining the wind board with the said rod the speel of the wind wheel is regulated by the force of the wind.

Claim. - The arrangement of the longitudinally sliding rotary rod G and rotary ropes connecting with the sails F, in the manner described, in combination with the cross-head H, pivoted stirrup J, ropes or chains c', and wind board K, all constructed and operating sub-

stantially as and for the purpose set forth

No. 35,237.—S. B. HUNT, of New York, N. Y.—Improved Automatic Boiler Feder.—Patent dated May 13, 1862.—Upon the top of the front end of the boiler is placed a water tank or receiver for containing the supply of water to be fed to the boiler. To a dome in the top of this tank is connected a steam pipe leading from the steam chamber of the boiler at the height of the proper water surface. To the bottom of the tank or receiver is attached a pipe provided with a check valve, and connected to the lower end of one of the legs of the boiler, so that as the water becomes lessened in the boiler, an additional supply is constantly and regularly supplied by means of the pressure of the steam admitted into the tank from the boiler when the water falls below its proper height.

Claim.—Automatically supplying a steam boiler with a regular proper supply of feed water by the combination of the tank B, sham pipe D, and feed pipe F, arranged and

operating as set forth.

No. 35,238.—Alfred Ingalls, of Independence, Iowa.—Improved Evaporator for Sectionine Juices.—Patent dated May 13, 1862.—This invention consists in the arrangement of three pans placed at different levels on the same furnace, in combination with three dampers and two fire doors, in such a manner that the heat under each of the pans may be regulated at pleasure, and that each pan can be emptied whenever desired without interrupting the operations of the others. Upon the edges of the first two pans are seats or recesses. in which is fitted a movable skimming device, so that the scum as it rises on the surface of the juice can be readily removed.

Claim.—First, the arrangement of three pans A B C, placed at different levels on the furnace D, in combination with the dampers F G H, and fire doors d e, constructed and

operating as and for the purpose shown and described.

Second, the arrangement of the skimming device I, in combination with seats m m m' m'. on the edges of the pans A B C, constructed and operating substantially as and for the purpose set forth.

No. 35,239.—T. T. JACOBS, of Mount Carroll, Iowa.—Improved Mode of Securing Chimneys to Lamps.—Patent dated May 13, 1862.—This invention consists in providing the upper part of a lamp top with two clasps held and pressed on the chimney by a spring, which is operated by pressing the flat projections of the clasps together where the spring is situated. for the purpose of raising the chimney when fitted on or taken off the lamp top.

Claim.—The combination of the two clasps A A, each having two projecting lips or catches c c, with the spring D, constructed, operated, and applied, substantially as and for

the purpose specified.

No. 35,240.—DAVID KEYSER, of Philadelphia, Pa.—Improved Boot Blacking Stand Patent dated May 13, 1862.—This invention consists of a stand composed of a box containing a drawer, and provided with a lid, to which is secured a block formed similarly to the sole of a shoe, for the purpose of containing the implements used in cleaning boots and shoes, and forming a rest for the same during the operation of cleaning.

Claim.—As a new manufacture the box A, drawer D, lid B, and block E, when combined

and arranged as set forth, for the purpose specified.

No. 35,241.—WILLIAM JOHNSTON, of Cincinnati, Ohio.—Improvement in Breech-loading Fire-arms.—Patent dated May 13, 1862.—The axle upon which the double cylinder or sleeve turns, whereby the barrel is coupled to the breech, is made of conical or tapering form, so that when it becomes loosened by use, it may readily be tightened by means of a screw and nut at the end. The "beak" of the cock passes through a small slot in the breech piece where it strikes the cartridge and recoils again to a distance sufficient to secure it from being

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moken or damaged, and prevent the cartridge or end of the barrel or coupling cylinder from sing accidentally marred in turning off the barrel.

Claim.—First, the axle C, constructed of a conical or tapering form, when used in the

nanner and for the purpose described.

Second, the causing of the cock G to recoil at each discharge by the use of a spring i and stop c, or their equivalents, substantially in the manner and for the purpose described.

Third, in breech-loading guns, so arranged as to be loaded by the insertion of a cartridge rom the rear, the construction of the chamber which is to receive the cartridge in the form of the frustum of a cone, having the base of the cone at the lower rear end of the chamber, when that chamber is so arranged that access may be readily had thereto, for the purpose of emoving with the thumb and finger the shell of a metallic cartridge after each discharge, substantially in the manner and for the purpose specified.

No. 35,242.—ISAAC KNAPP, of Medina, N. Y.—Improvement in Stop Dams for Canals.—Patent dated May 13, 1862.—This invention consists in the employment of a framework which may readily be placed across a canal or other artificial water-course, and having its outer sides covered with a plank from the top to near its bottom, leaving a space to be closed by gates which may be raised and lowered by means of screws, so that the flow of water may be stopped, or its depth regulated.

Claim.—The structure described, and the mode or manner of using the same, as explained.

No. 35,243.—HENRY KNIGHT, of Jersey City, N. J.—Improvement in Moulds for Cement Pipes.—Patent dated May 13, 1862.—This invention consists in the employment of a sectional nould which admits of being opened and closed, and having its lower end enlarged and prorided with a shoulder, in combination with a central core, having a right-angled continuous margement or shoulder at its base, whereby hydraulic cement pipe with an external projecting collar and an internal right-angled socket at one end may be moulded vertically sithout the necessity of slipping the core down through the bed plate in order to remove the mould and pipe from the machine; and whereby, also, the necessity of finishing the upper and of the cement pipe at the upper end of the core bar, by means of an annular detachable whar, is obviated.

Claim.—The combination of the divided core D D', slots i i, guide pins h h, and perforated

latform B, substantially in the manner described.

Second, the construction of the base plate E E' in such a manner that it constitutes, when a use, the collar of the core bar and also the bottom of the mould, and serves as a support of the outer or lower end of the pipe, and also the shoulder of the socket when the mould and the are being lifted over the core, substantially as described.

spe are being lifted over the core, substantially as described.

Third, the construction of a vertical mould, divided longitudinally in two parts, in combination with the base plate, so arranged that it shall support and hold the two parts of the mould imply closed, while the said mould and the enclosed pipe are being raised over the core bar,

abstantially as described.

No. 35,244.—ALEXANDER MCNAIR, of Newark, N. J.—Improvement in Running Gear of ars for Street Railways.—Patent dated May 13, 1862.—The rails upon which the cars run a constructed with flat bearing surfaces, having a longitudinal groove in the centre. The sain wheels of the car are without flanges. To the forward truck is rigidly attached the ousings of the axle boxes of an extra pair of wheels in front, provided with a central flange and acting as guide-wheels to keep the car upon the track. By means of an upright screwed of passing through a sleeve and secured to the axle of the guide-wheels, the latter may be aired from the track, and the car be allowed to run off the track when necessary in case of batructions or otherwise.

Claim.—The combination with the axle H and floor frame C of the projected pivoted ruck I, flanged wheels K K, axle L, standard e, and adjusting screw rod C, in the manner

and for the purpose shown and described.

No. 35,245.—B. MELLINGER, S. MELLINGER, Jr., and J. MELLINGER, of Mount Pleasant, 2—Improvement in Horse Rakes.—Patent dated May 13, 1862.—The thills are attached at beir rear ends to the axle and rake heads by means of joints secured to the upper edge of he back part of the axle. The whiffletree is attached to a segment clevis on the axle and rake exal by means of a stay rod and connecting rod. When the machine is in operation the seight of the driver tends to keep it in proper working position; and when the teeth have tathered a proper amount of hay, the operator pushes forward a lever which causes the axle of turn and elevate the teeth, in which position also the machine is kept by the weight of the lriver as long as necessary, or until an opposite movement of the lever changes the position. Claim.—Attaching the thills C' C' to the axle and rake head A, by joints cc, at the back

Claim.—Attaching the thills C' C' to the axle and rake head A, by joints c c, at the back part of the axle and rake head, in combination with the whiffletree I, attached to a segment levis L on the axle and rake head A, by means of a stay rod K and rod J, all arranged

and operating as and for the purpose specified.

No. 35,246.—Cancelled.



No. 35,247.—RICHARD MONTGOMERY, of New York, N. Y.—Improvement in Apparatus for Using Submarine Guns.—Patent dated May 13, 1862.—This invention consists in the arrangement of a telescopic or adjustable sliding tube attached to and penetrating the side of a vessel at a point below the surface of the water, so that a shot or shell may be discharged through it from a cannon within the vessel. Water is prevented from entering the sliding tube by the insertion of a plug of any suitable material, which is blown out as the piece is discharged.

Claim. - A cylinder or tube, extensible telescopically or by analogous means, to be kept free from water by means of a plug or analogous device, as conducting pipe for the transmis-

sion of shot or shell under water.

No. 35,248.—WILLIAM MURDOCK, of Jersey City, N. J.—Improvement in Moulds for Castings.—Patent dated May 13, 1852.—This invention consists of a cast-iron mould make in two parts, at the centre of which is a space of the size and form of the casting to be made An opening or gate is made from the outside to the central space, around which and the central space of each mould is a raised edge for the purpose of preventing the moulds, when expanded by heat, from opening next to the casting or central space. The moulds are hung horizontally in a frame, and to one of the sections of the mould is connected a screw by means of which it may be moved to or from the other section so that the casting can be readly discharged from the mould when desired.

Claim.—First, the screw C', in combination with the movable section or half mould C and the pins and holes G, as and for the purpose specified.

Second, the arrangement of the elevated or raised edges e around the form of casting band gate 4 upon the metallic moulds, as and for the purpose set forth.

No. 35, 249.-L. E. OSBORN, of New Haven, Conn.-Improved Machine for Folding Paper.—Patent dated May 13, 1862.—This invention consists in the employment of one or more pairs of rollers provided with fingers or nippers and conveying tapes in connexion with adjustable holding tapes, and one or more feeders fitted in the fly and in a feeding frame, so arranged as to be applied directly to a printing press and operated therewith, receiving the printed sheets from the press and discharging them in a folded state, the sheets being fooded one or more times, as may be desired.

Claim.—First, the employment or use of a fly B, provided with a bar or feeder H, operated automatically through the medium of the frame G and fly B in combination with the rollers J J', feeding frame A, and rollers Y Y, all arranged for joint operation as and for the purpose

Second, the automatically adjustable tapes n n when used in connexion with the sheet

conveying tapes m, and operated substantially as and for the purpose set forth.

Third, operating the fingers Q Q of the rollers J J' through the medium of the springs [on the shafts R R, the projections r on said shafts, the catches t on the levers T, and the lever W, actuated as shown, to operate on levers T; and these parts applied to all the ingers of any number of pairs of folding rollers that may be employed in the machine.

No. 35, 250.—W. K. OSBORN, of Chester, N. J. —Improvement in Straw Carriers and Grain Separators.—Patent-dated May 13, 1862.—This invention consists in combining together a series of rakers and separators with curved and straight teeth arranged upon alternately moving crark shafts in such a manner that while half of the rakes are holding the straw down upon the shaker, the other half are pulling it up and separating it so as to free the grain. separator is suspended a perforated shaker, to which a shake motion is imparted by means of connexions with the separator.

Claim The separate rake heads L, when provided with straight and curved teeth as described, and when combined with crank shafts so arranged as to impart to them an alternate

up-and-down motion, substantially as and for the purpose specified.

Also, in combination with the above, the shaker D, when arranged for joint action with the

rakes, in the manner substantially as set forth.

Also, the curved teeth f, when made adjustable, in the manner and for the purpose described

No. 35, 251.—ALPHONSE OUDRY, of Paris, France.—Improvement in Bridges.—Patent dated May 13, 1862.—This invention consists in the method of constructing suspension bridges so that, as one portion of the platform or roadway is subjected to a greater burden than other portions, it does not become distorted or put out of shape, and the structure is rendered es liable to oscillate. The means of suspension consists of two parabolic chains or cables, both in the same plane of suspension, meeting in the middle and uniting into one at the pillars leaving between them spaces large enough to comprise all variations of curves that each sings chain would take if unduly loaded at any one part of the platform. These spaces are fitled up ev connecting rods, which maintain the chains in their relative position, and by the introduction of other diagonal rods, the surplus strain on either cable will be communicated to the other. by which means the strain will be equalized.

Claim.—First, the employment of double parabolic cables or chains, as described and shown Second, the employment of two series of rods set obliquely to the plane of the platform,

substantially as described and shown.

Third, the employment of rigid tie pieces to overcome the effect of a horizontal force acting laterally upon four double chains or systems of suspension which would otherwise tend to deform, distort, or alter therefrom, together with the means described to replace such tie pieces in the middle of a bridge or viaduct so as not to impede the circulation, all as described and illustrated.

No. 35, 252.—AARON PALMER, of Brockport, N. Y.—Improvement in Sewing Machines.—Patent dated May 13, 1862.—Over one of the four shafts to which the cogs are attached passes a transverse shaft, to which is attached a lever by which the shaft is turned. Upon this transverse shaft is also placed an adjustable needle holder of any convenient size or form, held in place by a screw, and capable of being moved backward or forward on the shaft to accommodate needles of different lengths. The cloth is entered between the crimping wheels, whence it is thrown upon the needle and the stitches formed. When the needle is full, a movement of the lever presses the needle holder away from the needle, and at the same time presses the wheels upon the needle so that the cloth can be instantly pulled off. The lever being reversed, the needle holder resumes its place and the work proceeds.

Claim.—The combination of the crimping wheels L and M with the adjustable needle holder

z and transverse shaft U, substantially as described and for the purposes set forth-

No. 35,253.—Almarin B. Paul, of Silver City, Nevada Territory.—Improved Amalgamator and Ore Mill.—Patent dated May 13, 1862.—The construction of this device will be understood by reference to the claim and engraving. It is designed to be used in connexion

with an ordinary amalgamating pan into which the pulp flows or is forced.

Claim.—A rotating muller for amalgamating pans formed of a series of curved flat arms, B B B', provided with slots a, and having curved grooves a^* in their under surfaces or face sides; said arms being attached to an annular hub A, which also has radial arms C connected to it provided with pins ff, and adjustable upright copper plates D, substantially as described.

No. 35, 254.—SAMUEL PEBERDY, of Philadelphia, Pa.—Improvement in Knitting Machine Needles.—Patent dated May 13, 1862.—This invention consists in combining with a barbed needle of a knitting machine a notched shield or guard so constructed that the said needle may form what is known as "ribs" on the knitted fabrics, the object being to dispense with the cumbrous and complex mechanism heretofore used in knitting machines for effecting the same purpose.

Claim.—Combining with a barbed knitting needle the shield or guard d, constructed in the manner described, or any equivalent to the same, so as to guide and retain the thread in

the manner specified.

No. 35,255.—N. C. PERRY, of Chester, Conn.—Improvement in Machine for Bending Kire.—Patent dated May 13, 1862.—Upon the top of a cylindrical iron pillar is a wheel which carries a disk constituting a pivot, near the edge of which is placed an eccentric post, around which the wire is bent. Upon the top of the handle is secured a guide having a wedge-formed end extending nearly to the eccentric post, and provided with a notch for holding the wire in position. A clamp extends down at the side of the pillar, so arranged that its upper end may be moved forward or backward through a mortice in the upper wheel.

Claim.—First, the use of the eccentric post H, in the manner and for the purpose set forth

and described.

Second, the guide I and the clamp B, in combination with the eccentric post H, operated in the manner set forth and described.

No. 35, 256.—JOHN PFAFF, of Philadelphia, Pa.—Improvement in Tail Pieces for Violins.—Patent dated May 13, 1862.—This invention consists in combining with the tail piece of a violin a tongue of thin metal so arranged that by applying the mouth to the stem of the tail piece and blowing against the tongue the vibration of the latter will give out a note for guiding the performer in tuning his instrument.

Claim.—Combining the tongue y with the tail piece of a violin, substantially as and for the

Purpose set forth.

No. 35,257.—C. B. Porter, of Ann Arbor, Mich.—Improvement in Apparatus for Inhaling Chloroform.—Patent dated May 13, 1862.—This invention consists in the combination of a reservoir, air-chamber, air-regulator, screen, valve, tube, and mouth-piece, in such a manner that the agent to be administered, after being placed in the reservoir, may pass through the bottom, by means of a valve, in greater or less quantities, at the will of the operator. After passing through the valve, it falls in drops upon a screen stretched across the oct. It of a chamber, into the top of which the bottom of the reservoir is closely fitted, and then coming in contact with the air admitted in sufficient quantity by means of the regulator, becomes vaporized, and the vapor passes through a tube attached to the side of the air-chamber, near the bottom, to the mouth-piece, and by thus continuing the vapor, the rapid evaporation is prevented and a greater or less quantity administered to the patient as circumstances may require.

Claim.—The combination and arrangement of the reservoir, air-chamber, air-regulator, screen, valve, tube, and mouth-piece, substantially as described and for the purpose specified

No. 35,258.—A. M. PUTMAN, of Antrim, N. H.—Improvement in Pumps.—Patent dated May 13, 1862.—The piston works within an inner cylinder, which is attached to an outer cylinder by division plates forming four chambers, the largest one of which serves as an airchamber. The cylinders rest upon a base of sufficient depth to contain water-ways, and the valves being placed on the upper surface of this base, are readily accessible on removing the cylinder. Corresponding water-ways and ports are properly combined for operation.

cylinder. Corresponding water-ways and ports are properly combined for operation.

Claim.—The described pump, consisting of the piston E, cylinders A and G, chambers H I J K, with ports g and h in combination with the base C, containing water-ways is q, with open ports r o, and valves l m s p, arranged and operating substantially as described.

No. 35,259.—Andrew Rawlston, of West Middletown, Pa.—Improvement in Combinet Rack and Trough for Feeding Stock.—Patent dated May 13, 1862.—This invention consist in so constructing a feed-trough for stock, more particularly sheep, as to permit of their feeding from it without interfering with each other or jumping into the trough; while the food if of coarse fodder, is properly retained in the trough, by a superincumbent rack, to prevent its being wasted; the sheep, while feeding, being protected from the weather by a waterproof covering. A portion of the feed-trough is capable of being removed and used separately as a shed when desirable.

Claim.—First, so combining a rack and trough that the superincumbent pressure of the rack shall hold coarse fodder in place in the trough, in the manner and for the purpose sub-

stantially as set forth.

Second, a removable protector L, adapted to be used upon the rack and trough, or separate

therefrom, in the manner and for the purpose substantially as set forth.

Third, in combination with the rack H, having partitions h h', the removable weather protector L, substantially in the manner and for the purpose set forth.

No. 35,260.—ELIAS REES, of Manassas Station, Va.—Improved Blacksmith's Tongs.—Patent dated May 13, 1862.—The upper jaw forms a part of the lower handle, and through the upper jaw passes a graduated bar, by means of which, in connexion with a screw, the upper handle is secured to the under jaw, so that the jaws may be set nearer to or further from each other. Secured to the lower handle is a standard, passing through a slot in the upper bar, for the purpose of keeping the jaws parallel with each other in opening and closing.

Cluim.—The employment of the handles A B, the jaws C D, the bar E, screw F, and standard G, arranged and used together in the manner and for the purpose set forth and

described.

No. 35,261.—S. G. REYNOLDS, of Bristol, R. I.—Improvement is Power Spading Machines.—Patent dated May 13, 1862.—The operating parts of this machine are carried by a platform, upon which are placed a suitable steam-boiler and cylinders. Motion is communicated to a series of spades at the rear of the machine, the spades being operated by cranks set in a curved or spiral line, so as to cause them to strike the ground successively as the machine moves along. For the purpose of preventing the spades from being injured by obstructions, the rods are provided with springs, which allow them to yield as the obstructions are met. Upon each side of the machine is a post having at its lower end a broad circular foot, which is held up from the ground by means of a lever. When the machine is to be turned, one of the posts is dropped to the ground and secured in position, so as to act as a pivot and retain one wheel, while the opposite one moves around.

Claim.—First, the combination of the series of cranks m, set in a curved or spiral line, and the shackle bars t, or their equivalents, with the spade-carriers O, for the purpose of giving the required motion to the spades, as shown, to enter the ground, pulverize the soil, and

clear themselves, as described.

Second, the yielding spade-carriers, operating as set forth, for the purpose specified.

Third, in combination with a power spading machine, the pivot K², placed within the axis

of the bearing wheels and operating as set forth.

Fourth, the combination of a mechanical spading machine with a harrow, when the harrow follows the machine, and is operated by cranks, in the manner substantially as set forth and for the purpose specified.

No. 35,262.—J. A. Rhodes, of Providence, R. I.—Improvement in Yarns for Warps.—Patent dated May 13, 1:62.—The inventor says: "The action of steam impinging the yarn whilst removed from the air by immersion, effectually expels the air from between the fibres, whilst the current of heated moisture carries with it the diluted or thinner portion of the size, which is thus made to penetrate to the inmost fibre and take the place of the expelled air. By this means, so minute a quantity of the size is incorporated with the yarn, and by the application of such intense moist heat, that the superfluous moisture is exhaled by exposure to the air, which is cooler, and the sized yarn dries as quickly as can be desired."

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Clsim.—The use of steam, impinging yarns, cloths, and other fibrous matter, while immersed in size, paste, or other fluid, with which said yarn, cloth, &c., is to be sized or

dressed, substantially as described, for the purpose specified.

Also, the use of steam, impinging the surface of the roller g, or other device used for immersing or applying the size, paste, or other fluid, with which the yara, cloth, or other fibrous matter is to be sized or dressed, substantially as described, for the purposes specified.

No. 35,263.—E. S. RITCHIE, of Brookline, Mass.—Improvement in Mowing Machines. Patent dated May 13, 1862.—An endless band or belt of steel is arranged within an elongated frame or carrier, the lower part of which consists of a straight bar, provided with a sense of teeth projecting laterally below the bar and over the knife. The endless-band knife the gride pulleys. Within the carrier is arranged a cylindrical grindstone, having its lower side inclined to the knife, so that the endless knife, as it moves around, will rotate the grinder, by which means the cutting edge of the knife will be kept sharpened. By means of a clutch operated by a bent lever, the knife may be thrown out of action, and the carrier turned into a horizontal position, while the machine is moved to or from the field.

Claim.—The arrangement of a revolving knife, consisting of an endless band of spring steel, its driving pulley, a series of teeth, and a continuous or endless carrier or frame, sub-

stantially in manner and so as to operate as specified.

Also, the arrangement of the grinding wheel relatively to the endless-band knife.

Also, arranging the band-knife carrier and driving pulley relatively to the axle and the wheels thereof, and applying the carrier to the axle by means of arms or equivalent devices, so that the carrier may be tilted or moved relatively to the wheels and axle, as specified.

Also, the combination of the clutch and its operative mechanism, substantially as described, with the driving wheel, the train of gears, and the knife-carrier, arranged and

applied together, as set forth.

No. 35,264.—WILLIAM SEYBOLD, of McKeesport, Pa.—Improvement in Miners' Lamps.— Patent dated May 13, 1862.—The nature and object of this invention are explained by the claim. The lamp is designed to be attached to the cap or hat worn by the miner.

Claim.—Constructing lamps for burning tallow or other non-fluid fatty substances, with a wick tube of copper or other sufficient conductor of heat, surrounded by a hot-air chamber, for the purpose of melting the tallow or fat around the wick in the lamp, and keeping the tallow melted in the wick itself, substantially in the manner and for the purposes set forth.

No. 36,265.—J. D. SHULER and J. T. SHULER, of Lockport, N. Y.—Improved Means for Manufacturing Baskets.—Patent dated May 13, 1862.—This invention consists in the employment of a block or former provided with guides, cords, and gauge measures or marks, over which the basket is formed, so that it may be made accurately to a gauge of any desired dimensions and serve as a measure of capacity.

Claim.—First, constructing baskets over a block or former, in the manner and substan-

tially as shown and described.

Second, the particular arrangement of the guides B, cord or band C, and grooves or gauge marks a a', combined or used in connexion with the former, as and for the purpose specified.

No. 35,266.—EMERSON SMITH, of New Haven Mills, Vt.—Improvement in Shingle Machines.—Patent dated May 13, 1862.—This invention relates to a shingle machine in which a circular saw is employed for cutting the shingles from the block, and is designed to be operated by two persons. In the upper part of the main framing is placed a horizontal rectangular sliding frame which works directly over the saw, and is provided at each end with two longitudinal parallel shafts, one at each side, the latter having each two arms attached projecting inwardly toward the centre of the frame, each arm being provided with a pin projecting at right angles. The said pins fit in oblique slots made in vertical plates attached to a slide fitted in guides secured to the sliding frame. Each slide has a serrated plate attached to it which forms a jaw, by means of which the bolt is readily released and grasped at the will of the operator.

Claim.—The particular manner of operating or adjusting the jaws j, to wit, by means of the pins cattached to arms d on the shafts E, and fitted in oblique slots f in the upright

plates g of the slides h, to which the jaws j are secured.

No. 35,267 .- O. C. SMITH, of Salem, Mass .- Improvement in Piston Packing .- Patent dated May 13, 1862.—This invention consists in the employment of a series of arc-formed expanding pieces fitted to the interior of the wings, a hollow cone fitted to the hub of the piston and to the interior of the arc-formed expanding pieces, and a spring coiled around the hub between the cone and the cap or follower of the piston, for the purpose of producing an outward pressure against the interior of the wings, so as to hold them in contact with the cylinder and compensate for wear.

Claim.—The combination with the head A, cap C, and packing rings G G of the arcformed expanding pieces F F F, the cone H, and spring I, the whole arranged, applied, and operating substantially as specified.

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No. 35,268.—C. A. STRONG, of Brooklyn, N. Y.—Improvement in Mode of Building and Coating Earth Fences.—Patent dated May 13, 1862.—This invention consists in the employment of two sets of hinged boards placed in an inclined position towards each other, and between which is placed a filling of dirt and stones. This material is then firmly packed or stamped, and the boards or "moulds" removed and the material covered with a coating of cement.

Claim.—The described mode of building earth fences by means of a mould and coating

them, substantially in the manner set forth.

No. 35,269.—George Tainter, of Watertown, Mass.—Improvement in Ventilating Dampers.—Patent dated May 13, 1862.—This invention consists in the employment of a hinged conical damper and ventilating register, so constructed and applied to the flue or pipe of a stove or furnace that the damper will be opened and closed simultaneously with the adjustment of the register.

Claim.—The combination of the conical damper C and band or ventilating register B, connected together and applied to the flue or pipe for joint operation, substantially as and for.

the purpose specified.

No. 35,270.—JOHN TAYLOR, of Magnolia, Ill.—Improvement in Rakes for Harvesters.—Patent dated May 13, 1862.—This invention consists in increasing the radius of the circle described by the operating crank as it passes forward over the grain so as to pass entirely clear of it without at the same time throwing the rake too far forward or too far in the rear, the range of motion of the take communicated by the crank, being varied by the use of cams on the crank pin of the crank shaft.

Claim.—The rake frame provided with slotted arms I I' and the cross-bar K, in combina-

tion with the crank shaft G and cams L L', as and for the purposes set forth.

Also, the rake J, provided with slotted arms I I', and the cross-bar K, and hinged to the arms c c', which are attached to the rock shaft II, in combination with the crank G and cams L L', when the several parts are arranged for operation in connexion with each other and with the concave platform A, in the manner and for the purpose specified.

No. 35,271.—J. B. WHEELER, of Boston, Mass.—Improvement in Stirring, Conveying, and Cooling Grain.—Patent dated May 13, 1862.—This invention consists in the employment of a reciprocating carriage furnished with stirrers and conveyers which traverse over a perforated bottom, through which cool or heated air, or alternate cool and heated air, is driven or passes; the stirrers and conveyers being so arranged and operated as to completely move the whole of the grain as it passes over the perforated bottom from the inlet to the outlet, without drawing any of it back.

without drawing any of it back.

Claim.—First, in combination with a perforated bottom through which air is driven by a fan, a reciprocating carriage, which carries a series of conveyers and revolving stirrers that move and turn over the grain as it is being advanced over said perforated bottom, substan-

tially as described.

Also, in combination with a reciprocating carriage, the conveyer G, which has, in addition to its forward and backward movement, a rising and falling movement, substantially in the

manner and for the purpose set forth.

Also, in connexion with a reciprocating carriage, a section of conveyers composed of blades m, that are moved laterally by the cams j and k_j in the manner and for the purpose set forth. Also, in connexion with a reciprocating carriage, the hinged conveyer and stirrer z that acts while the carriage goes forward and swings up out of the grain when the carriage moves

backward, for the purpose substantially as set forth.

No. 35,272.—E. J. White, of Locke, N. Y.—Improvement in Ploughs.—Patent dated May 13, 1862.—Attached to vertically sliding standards which pass loosely through the main frame are ploughs, which are made to enter the earth more or less deep by means of levers which operate the sliding standards, and one or more ploughs may be used as required. Adjustable colters are also attached to vertically sliding standards and operated similarly and in connexion with the ploughs. A gauge wheel is attached to the front part of the platform to insure a uniform depth to the ploughs.

form to insure a uniform depth to the ploughs.

Claim.—The ploughs M Q, when attached to vertical sliding standards L R, which pass loosely through the mounted frame or platform A, and are connected to adjusting levers K S, in combination with the vertically adjustable colters P T and gauge wheel X, all arranged for

joint operation, as and for the purpose set forth.

No. 35,273.—E. D. WILLIAMS, of Philadelphia, Pa.—Improvement in Wads for Ordnance and other Fire-arms.—Patent dated May 13, 1862.—The wad is composed of two or more concavo-convex disks of metal, each having a series of radial openings so arranged with respect to similar openings in the other that the metal of one covers the openings in the other, the wad being of such a diameter relatively to that of the bore of the gun in which it is to be used, as to pass easily through the bore in loading, but that the explosive force of the powder in firing or the force employed in ramming the charge home will cause the disks to spread laterally and fill the bore between the powder and the projectile in such a manner as to prevent all escape of gases, and in rifled guns to communicate a rotary motion to the projectile.

Cldim.—A wad composed of two or more concave-convex disks of metal provided with its b b, and combined substantially as specified.

No. 35,274.—ISAAC WINSLOW, of Philadelphia, Pa.—Improvement in Preserving Green orn.—Patent dated May 13, 1862.—This invention consists in removing the corn from the b, packing the kernels in cans hermetically sealed, and then boiling the cans until the corn intained therein is completely cooked.

Claim.—The described process of first removing the corn from the cob, and then preserv-

g the kernels, substantially in the manner and for the purposes set forth.

No. 35,275.—Robert Chadwick and Norman Allen, of Hartford, Conn., assignors to id ROBERT CHADWICK, of the same place. - Improvement in Machine for Casting Bullets. atent dated May 13, 1862.—This machine is composed of a series of bullet moulds pivoted a circular frame which is arranged to rotate about a central shaft. Attached to the frame is series of levers with appendages which are caused to open and close the moulds by the ctation of the levers with the moulds, around a suitable system of stationary cams. The nolten lead is poured into the moulds successively, and after the metal is set the bullets are lischarged by the rotation of the circular frame.

Claim.—The combination of a rotating mould frame E.F., a series of moulds G.G., a system f levers H H, and a cam or cams, the whole applied and arranged to operate substantially

a specified.

No. 35,276.—A. L. Fleury, of Philadelphia, Pa., and Charles Adams, of Pittsburg, 'a, assignors to W. J. CHEYNEY, of Philadelphia, Pa.—Improvement in the Manufacture of ron and Steel.—Patent dated May 13, 1862.—The nature of this invention is explained by he claim. As the products of combustion are impelled along the passage towards the fur-ace a partial vacuum is caused therein, which tends to increase the draught, and also to ondense the impurities which are mixed with the products of combustion, at the same time he carbonic oxide mixed with carbonic acid, which mixture constitutes the greater portion if the products of combustion, is restored to the furnace, and, while it increases the heat, tends o oxidize the iron in the furnace.

Claim.—First, directing a jet of steam into or toward a pipe or passage which forms a com-nunication between the chimney or stack of a puddling furnace, cupoia, blast, or other fur-lace, and the fireplace or body of ignited fuel within the said furnace, so that said steam may be mixed with a portion of the products of combustion, and the whole propelled along

the said passage toward the furnace, for the purpose specified.

Second, introducing through the hollow bridge of a puddling furnace hydro-carbon alone, a hydro-carbon mixed with nitrogenous substances, or deoxidizing vapor, for the purpose specified.

No. 35,277.—C. W. ISBELL, of New York, N. Y., assignor to Himself and E. S. ELY, of Providence, R. I.—Improvement in Explosive Projectiles.—Patent dated May 13, 1862.—The object of this invention is to apply a percussion apparatus to a projectile in such a manner as to enable it to be made solid at the point or end which strikes, and also to enable it to be transported ready primed without danger.

The invention consists in attaching the hammer of the percussion apparatus to the rear portion of the projectile by a device which holds it back until the discharge of the projectile from the gun. The hammer, when liberated as the projectile is discharged, is held back by inertia until the projectile strikes, when its momentum carries it forward and causes it to ex-

plode the percussion.

Claim. - First, the attachment of the hammer of the percussion apparatus to the rear por-

tion or breech of the projectile, substantially as and for the purpose specified.

Second, so constructing and applying the device for attaching and holding back the harmer within the projectile that it is caused to liberate the hammer by the driving forward of the rear portion of the projectile relatively to the front portion thereof, by the act of discharging the projectile from the gun, substantially as specified.

No. 35,278.—J. M. MARTIN, of Cleveland, Ohio, assignor to Himself and Myers, UHL & Co., of the same place. - Improvement in Construction of Monuments. - Patent dated May 13, 1362.—This invention relates to the employment of a catch or fastening so constructed and arranged that mouldings or designs of any kind can be permanently secured to monuments or slabs of marble, so that the said mouldings, &c., may be left in relief, thus avoiding the necessity of cutting away the entire face of the slab of marble.

Claim.—The plate H, clutches O P, nut T, bolt U, springs M N, and heads K K', these Several navis belief and operating in the manner and for

several parts being arranged in relation to each other and operating in the manner and for

the purpose set forth.

No. 35,279.—Thomas Shaw, of Philadelphia, Pa., assignor to Himself and P. S. Justice, of the same place.—Improved Means of Connecting Metallic Armor Plates for Marine or ther latteries.—Patent dated May 13, 1862.—This invention relates to armor plates used

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upon the sides of vessels. Two layers of plate are placed in proper position, and a space left between them into which a fusible metal is run, metal blocks being placed within the space to assist in attaching the fusible metal.

Claim.—The firmly uniting of armor plate by means of fusible metal, substantially as de-

scribed.

No. 35,280.—Alonzo Streeter, of Adrian, Mich., assignor to Himself, Thomas Farrar. and AMZI CHASE, of Wellsville, Mich. - Improvement in Corn Planters. - Patent dated May 13, 1862.—This machine is designed to plant two rows of corn at the same time, and the invention consists in the employment of four hoppers in connexion with driving wheels. which latter, as the machine moves along, impart motion through a cam and shaft to the hoppers. When the machine is to be turned, after being drawn across the field, the operator presses a lever into a notch in the post K, which raises the shoes, cutters, and their connerions. By means of a crank, windlass, rope, and sheave, the slide and guides are moved to the right and left, and the succeeding rows are made parallel with those already made.

Claim.—First, the combination and arrangement of hoppers D and wheels B, as described

for the purposes described and set forth.

Second, the combination of the post K, lever G, shaft H, connexion I, spiral springs 4, connexion O, shoes Q, and cutters R, for the purposes set forth and described.

Third, the combination of the levers 5 with the clow levers 2, for the purposes described. Fourth, the crank U, windlass T, rope V, and sheaves W, in combination with slide P and guides S, for the purposes set forth and described.

No. 35,281.—JOHN TROMAS, of Indianapolis, Ind., assignor to Himself and J. M. LORD. of Marion county, Ind.—Improvement in Rolls for Rolling Piles of Railroad Iron.—Patent dated May 13, 1862.—The rolls used in this invention are constructed as shown in the engraving, the object being to completely confine and control the flux used in the process of wedding, and to concentrate the force upon the pile so as to preserve its compactness and prevent its spreading. The flux is prevented from escaping and forced along the seams as the full force of the rolls is brought to bear upon the pile.

Claim.—The rolls G and H constructed and arranged as and for the purposes set forth.

No. 35,282.—L. B. WATERMAN, of Chicago, Ill., assignor to Himself and JAMES S. BANGS, of the same place.—Improvement in Cultivators.—Patent dated May 13, 1862.—The adjustable that is so arranged as to allow the feet of the operator to rest upon the beams below, by which It may be raised or lowered, as desired, by his weight, and thus the depth of the ploughs is regulated. The double-tree is secured to the under side of the tongue at a suitable distance from the axle, and to it are attached draught rods passing through a graduating bar so that the tongue can be properly adjusted to the necks of the animals.

Claim.—The arrangement of the adjustable seat D, in combination with the double-tree G. draught rods K K, and graduating bar I, when operated and attached to the framework for the

uses and purposes described, as substantially set forth.

No. 35,283.—S. R. Wing, of Sandwich, Mass., assignor to L. M. Wing, of West Falmouth. Mass.—Improved Rollers for Wringing Machines.—Patent dated May 13, 1862.—This invention consists in making the rollers of cork or covering them with cork for the purpose of obtaining the required elasticity. Arranged upon cross bars are traversing guides which are pressed towards each other by means of springs fastened to the standards, for the purpose of pressing in the edges of the clothes as they enter between the rolls.

Claim. -One or more rollers made of or covered with cork, for the purpose specified, sub-

stantially as described.

Also, the solf-adjusting traversing guides for pressing in the edges of the cloth or clothes as they pass in between the sollers, as described.

No. 35,284.—W. H. Elliott, of Plattsburg, N. Y.—Improvement in Breeck-loading Fire-arms.—Patent dated May 13, 1862.—The nature and object of this invention will be understood from the claim.

Claim.—So constructing and arranging the sliding breech and hammer, in relation to each other, that when the former is thrown back the hammer will cease to act upon it to throwit forward, but will hold it from moving by a downward pressure, while the cartridge is being

placed in the leading chamber, as set forth.

Second, the employment of a toggle joint for moving the sliding breech when that part of said joint which forms a portion of the lever m is pivoted to the sliding breech, and when the other part of said joint is pivoted to a fixed point upon the arm, substantially as set forth.

Third, the employment of the pin s, in combination with a trigger, which is attached to and swings back and forth upon the guard lever, and with a side lock sere, as specified.

Fourth, the arrangement and operation of the sliding breech and clutch, by which they spproach each other and catch the head of the cartridge between them before driving it into

the barrel chamber, as specified.

No. 35,285.—W. H. ELLIOTT, of Plattsburg, N. Y.—Improvement in operating a Submarian Battery connected with a boat or other vessel.—Patent dated May 13, 1862.—This invention consists in the employment of a magazine attached to an arm extending from a vessel under water; the said arm being attached to the vessel by means of joints, so that it may receive either a lateral or vertical motion by means of suitable machinery arranged within the vessel. An electrical current is employed for the purpose of firing a battery so connected with the vessel.

Claim.—First, the employment of a magazine which is controlled or governed by an arm attached to a vessel by means of joints, and arranged below the surface of the water, as and

for the purpose specified.

Second, the employment of a float h, in combination with an arm and magazine which are stacked to the vessel by means of joints, as set forth.

Third, the employment of a rudder t, in combination with an arm attached to a vessel by

means of joints, as and for the purpose specified.

Fourth, arranging the arm c with the joints which attach it to the vessel, in such relation to the bulk that the magazine upon its extremity may be dragged through the water at the side of the vessel, when moving from place to place, as shown.

Fifth, the arrangement and combination of the arm c, joint f, and extension e, when

employed in connexion with a magazine, as set forth.

Sixth, the employment of the hollow vertical shaft n, in combination with an arm c, and poles v, as and for the purpose specified.

No. 35,286.—JOHN ADAMS, of Pittsburg, Pa.—Improvement in Preserve Vessels.—Patent dated May 20, 1862.—Upon the upper surface of the cover are formed two inclined projections in the form of arcs concentric with the circular margin of the cover, and in the centre of the cover is a recess for the reception of a projection on the yoke. The ends of the yoke are hooked so as to catch under a collar or the neck of the jar or bottle, so that, as the yoke is turned around, the projections on the cover act like wedges to force it down upon the jar.

Claim.—The construction of the cover C with wedge-shaped projections ff in combination

with the yoke B and the neck of the jar, as shown and described.

No. 35,287.—J. J. ALVORD, of Tecumseh, Mich.—Improved Method of Moulding and Pressing Brick.—Patent dated May 20, 1862.—This invention consists in the employment of an upright hollow cylinder, through which passes a vertical shaft. To this shaft there are secured spiral flanches and knives, the latter being attached to the shaft horizontally in pairs. To the inner side of the cylinder there are secured horizontal knives having a radial position. Below the upright cylinder is a box in which is placed a horizontal screw which conveys the clay to the moulds, the shaft of the said screw being connected to the vertical shaft by bevel rears. In the rear end of the box which contains the screw is mounted a wheel, having its periphery perforated with rectangular openings which form the brick moulds, each mould being provided with a piston or plunger. In the lower part of the box, and just in the rear of the wheel, is fitted, transversely, a box which serves as a scraper to take the superfluous clay from the periphery of the wheel, and to smooth and compact the clay at the surfaces of the moulds.

Claim.—First, the rotating, clay-grinding or tempering device formed of the knives D and spiral flanches C, shaft B, and the stationary knives E in the cylinder A, in combination with the feeding screw G in the box or receiver F, and the rotary mould wheel L, provided with the pluncers h, substantially as and for the purpose set forth.

the plungers h, substantially as and for the purpose set forth.

Second, the box T placed transversely in the lower part of the box or receiver F, and in such relation with the mould wheel L and projection a', to operate as and for the purpose

specified.

No. 35,228.—S. E. ANTHONY, of Stillwater, N. Y.—Improvement in Shingle Machines.—Patent dated May 20, 1862.—This invention consists in the employment of two gangs of saws, one gang being placed in an ordinary reciprocating gate or frame, and the other gang in a gate or frame which has a lateral as well as a reciprocating movement, all so arranged that the whole bolt may be sawed simultaneously into shingles of proper taper form without any waste of timber, a sufficient number of saws being used to correspond with the width of the bolt.

Claim.—The arrangement of the saws c i, the reciprocating gate B, and the laterally adjustable reciprocating gate D with each other and with the bar E, cleat j, and carriage F, the whole constructed and operating in the manner shown and described.

No. 35,289.—SARAH A. BALDWIN, of Waterbury, Conn.—Improved Combination of Sofa and Bulking Tub.—Patent dated May 20, 1862.—This invention consists in attaching to the sofa, beneath the seat, a box properly lined and prepared to answer the purpose of a bathing tub.

Claim.—As an improved article of manufacture, the combined sofa and bathing apparatus,

substantially as described and set forth.



No. 35,290.—C. E. BANCROFT, of Waterbury, Conn.—Improved Clothes Wringer.—Patent dated May 20, 1862.—Fitting within mortises or grooves in the sides of the uprights are circular blocks, which operate by the pressure of springs on the ends of the shaft of the upper cylinder, and force the cylinder down upon the clothes as they are pressed between it and the lower cylinder.

Claim. - The shape and construction of the circular blocks I I, arranged and operating as

described and for the purposes set forth.

No. 35,291.—L. A. BEARDSLEY, of South Edmeston, N. Y.—Improvement in Hop Frames.—Patent dated May 20, 1862.—This invention consists in interposing insulators formed of wood or other non-classic non-conducting material between the lower and upper wires, which sustain them in such a manner that electricity will be prevented from passing from the lower to the upper wires. The training cords, which lead from the ground to the horizontal wires, are in pairs united at the ground, but held apart by spreaders of wood near the centre. The cords are attached to the upper wires by an S-shaped hook, the inner edges of the upper part of which are sharpened so as to prevent its slipping upon the wire.

Claim.—The employment of electric insulators in combination with two series of horizontal wires running at a right angle with each other, substantially in the manner and for the pur-

pose set forth.

Also, the spreader s in combination with the divergent training cords o and p, substantially

as and for the purpose specified.

Also, forming the training cords of wire intertwined with one or more fibrous strands, for

the purposes specified.

Also, the use of the hooks t, having a sharp or annular inner edge, and otherwise constructed as described for the purposes set forth.

No. 35,292.—M. C. Bogia, of Philadelphia, Pa.—Improvement in India-rubber Sword Handles.—Patent dated May 20, 1862.—This invention consists in combining a tube of gunelastic with the shank of a sword or other like weapon for the purpose of affording a firm grip for the hand, preventing the abrasion of the skin, and avoiding the stunning and straining of the hand resulting from the repeated blows and shocks to which the swords are subjected.

Claim .- Combining a tube of gum-elastic with the shank of a sword, dagger, or other like

weapon, substantially in the manner and for the purpose set forth.

No. 35,293.—Jehu Brainerd, of Cleveland, Ohio.—Improvement in Depilating and Bating Skins.—Patent dated May 20, 1862.—This invention consists in the employment of unslaked lime gradually moistened with water which is combined with sulphur and water sufficient to form a thick paste. To this is added a solution of sulphate of potash or sulphate of soda. A proper portion of this compound is then mixed with the water in the depilating vat in which the hides or skins are immersed.

Claim.—The described compound for depilating and bating hides and skins, the same being

combined in one operation, as specified.

No. 35,294.—S. A. BRIGGS, of Providence, R. I.—Improvement in Heaters.—Patent dated May 20, 1862.—On the top of the frame is fitted a drum which is in direct communication with the cold air pipe fitted within the furnace, and with which the hot air pipes communicate. Within the drum are placed two horizontal flues communicating with the furnace. Each flue is formed of curved passages communicating by means of a spout with a receiver underneath the ash-box.

Claim.—First, the flues H H arranged within the drum E, or at the upper part of the cold air pipe D, and used in connexion with the upper inverted conical parts b d of the furnace

and cold air pipe, as and for the purpose specified.

Second, in combination with the flues H H, the spout J, provided with a central partition plate i and plates h', and communicating with curved passages h in the flues for the purpose of rendering the same self-cleaning, as set forth.

Third, the combination of the furnace C, cold air pipe D, flues H H, and pipes I I, arranged

as shown within the chamber B, for the purpose specified.

No. 35,295.—J. S. Brown, of Washington, D. C., assignor to Himself and JOSEPH KENT of New Albany, Ind.—Improvement in Water Elevators.—Patent dated May 20, 1862.—The windlass is composed of a cylindrical portion on which the rope is wound, and a conical portion which causes the bucket to move over the discharging spout. The bail of the bucket has an eye at its centre projecting upwards, through which the rope passes, and over the eye is placed a short lever attached to which is a rope and chain connected with a valve in the bottom of the bucket. The valve is opened by means of the lever as the bail strikes the windlass. At the outer end of the discharge spout is placed another spout inclining towards and extending into the well for the purpose of preventing the water from dripping upon the platform.

Claim.—First, the conical portion b of the windlass, or its equivalent, for conveying the raised bucket over the discharging spout, arranged and operating substantially as specified.

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Second, the lever I and double branch chain or cord m, acting in combination, substantially

as specified, for lifting the valve.

Third, overbalancing the empty bucket G when suspended at or near the apex of the conical portion of the windlass by the crank or winch C, substantially as and for the purpose

Fourth, the dripping spout E, arranged and operating, in combination with the discharging

spout D, substantially as and for the purpose specified.

No. 35,296.—WILLIAM BROWN, of Petersburg, Pa.—Improved Washing Machine.—Patent dated May 20, 1862.—This invention consists in the employment of a bar hinged to the uprights of the rubber, so that its lower part will fall by its own gravity on the rubbing board, for the purpose of griping the articles to be washed between it and the rubbing board. Claim.—The griping bar \hat{D} hinged to the uprights a in the manner described and shown, for the purpose set forth.

No. 35,297.—CHARLES BUSMOR, of Philadelphia, Pa.—Improvement in Machine for Loading Coals, &c.—Patent dated May 20, 1862.—This invention consists in the combination of an elevator, with a movable carriage or truck provided with a mechanical power, whereby either the carriage may be propelled or the elevator operated, as may be desired.

Claim.—The arrangement of an elevator on a movable truck, for the purpose of loading coal, when the same are constructed and combined in the manner substantially as set forth

and described.

No. 35,298.—ALVIN CAHOON, Jr., of Harwich, Mass.—Improvement in Combined Spirit Leads.—Patent dated May 20, 1862.—This invention consists in the employment of two horizontal spirit levels at right angles one to the other, one of them being adjustable in a venical plane by means of a micrometer screw and scale, for the purpose of determining the "trim" of the vessel, and thereby indicating the proper disposition of the cargo for obtaining an even keel and the best sailing trim.

Claim.—The instrument described, consisting of two horizontal spirit levels at right angles the other, and one of them rendered adjustable in the vertical plane, for the purpose of

determining the trim of a vessel, substantially as described.

No. 35,299.—L. S. CHICHESTER, of New York, N. Y.—Improvement in Grain-Weighing Machines.—Patent dated May 20, 1862.—This invention consists in the employment of a series of buckets revolving upon a shaft and fitted with a cut-off for shutting off the supply of grain and regulating the same so as to insure the proper amount to the required weight, each bucket being successively filled and emptied, and in their revolution causing an automatic adjustment of the scales.

Claim.—First, a series of buckets set between and revolving with heads on a shaft, when said buckets are hung on centres and allowed a limited amount of motion, the same insuring

securacy of weighing, as set forth.

Second, the employment of two cut-offs to the hopper, the first shutting off the main supply of grain, while the second regulates the supply necessary for making accurate weight, as specified.

Third, the arrangement of mechanism shown, consisting of the arms 6 and 7 and blocks of or actuating the first and second cut-offs as the buckets and scale beam descend, as set forth.

Fourth, the employment of the second or balancing weight o to act in insuring the accuracy

of weight after the main body of grain has passed into the bucket, as set forth.

Fifth, the weights 8 and 9 to counteract the friction of the cut-off arms 6 and 7, in the Euner set forth.

Exth, the pawl r, applied and acting in the manner set forth, to hold the bucket in place and prevent any variation of the leverage of the same on the scale beam as the parts descend, is set forth.

Seventh, the employment of the rollers vv and heads ff, acting in the manner specified, to tlevate the buckets and scale beam to their normal position as each bucket comes to its Face, as set forth.

No. 35,300.—ABRAM CLOW, of Port Byron, N. Y.—Improved Attachment of Whiffletrees to the Tow Lines of Canal Boats.—Patent dated May 20, 1862.—The object of this invention is admit of the whiffletree being instantly detached from a tow line when the latter is drawn the incase of a sudden necessity for such adjustment. On the centre of the whiffletree is a freelike collar having two lugs extending from its rear. Between these lugs is a hook witing freely on a pivot, and having at its back part a hooked projection, over which passes a catch by which it is retained so as to hold the tow line. This catch may be readily detached by the driver when necessary to release the tow line. A drop or guard fitted in the foot and of the hook prevents the casual detachment of the latter. trout end of the hook prevents the casual detachment of the latter.

Claim.—The combination of the guard g with the hook C, collar B, and catch D, all of

sad parts being constructed and operating as set forth

No. 35,301.—C. C. CONVERSE, of Elmira, N. Y.—Improved Mangle.—Patent dated May 20, 1862.—This invention consists in the employment of two pressure rollers and an endless apron, the latter being applied to an adjustable extension frame, which is attached to the main framing, and is composed of four side pieces attached, two at the front and two at the kein side of the machine, so as to be supported by props when in use. When not in use the fram may be folded up so as to occupy but little space.

may be folded up so as to occupy but little space.

Claim.—The pressure rollers B C and endless apron L in combination with the folding:

extension frame K, all arranged and applied to the framing A, substantially as and for the combination with the folding:

purpose set forth.

No. 35,302.—J. C. CURRIER, of Bradford, Vt.—Improvement in Window Sashes.—Paradated May 20, 1832.—This invention consists in the method of securing the lights of para of glass in the sash, whereby the use of putty or other plastic material is avoided, and the panes readily inserted in the sash or removed therefrom when broken.

Claim.—A window sash having its top and bottom rails, b b, formed of two parts, 12 and its cross pieces c and stiles a a grooved, as shown, to admit of the insertion and security

of the panes e in the sash, substantially as shown and described.

No. 35, 303.—H. G. Davis, of New York, N. Y.—Improvement in Extension Splints—Patent dated May 20, 1862.—This invention is designed for use in case where a splint require to be changed to different lengths and to sustain a strain extending over the part to which it is applied, as in many forms of chronic disease. The upper portion consists of a metallic walk into which is fitted another piece provided with a screw thread cut to correspond with a thrift given give efficient over the tube and acting as a nut, by which the end may be extended or walk drawn as required.

drawn as required.

Claim.—The described splint composed of the tube A, threaded part B, and vent or equivalent C, as a new article of surgical apparatus, the same being adapted to operate in the manual

and so as to realize the advantages set forth.

No. 35, 304.—S. F. DAY, of Ballston Spa, N. Y.—Improvement in Instruments for Idegraphs.—Patent dated May 20, 1862.—The object of this invention is to obtain a compactable instrument that can be placed in working order at any point in a very short that it is designed to obviate the difficulties usually caused by the echo or the mingling of assecutive sounds upon the vibrations caused by sound boards and tensible wires.

Claim.—First, the combination with the sounding lever 6, having one or more armsture attached, and with the spring 13 of the adjustable counterpoise or balance weight 9, substantially and with the spring 13 of the adjustable counterpoise or balance weight 9, substantially and the spring 13 of the adjustable counterpoise or balance weight 9, substantially and the spring 13 of the adjustable counterpoise or balance weight 9, substantially and the spring 13 of the adjustable counterpoise or balance weight 9, substantially and the spring 13 of the adjustable counterpoise or balance weight 9, substantially and the spring 13 of the adjustable counterpoise or balance weight 9, substantially and the spring 13 of the adjustable counterpoise or balance weight 9, substantially and the spring 13 of the adjustable counterpoise or balance weight 9, substantially and the spring 13 of the adjustable counterpoise or balance weight 9, substantially and the spring 13 of the adjustable counterpoise or balance weight 9, substantially and 15 of the adjustable counterpoise or balance weight 9, substantially and 15 of the adjustable counterpoise or balance weight 9, substantially 15 of the adjustable counterpoise or balance weight 9, substantially 15 of the adjustable 15 o

tially as and for the purpose set forth.

Second, the combination of the adjustable counterpoise or balance weight 9, the source lever 6, having armatures 7 7' attached, and spring 13, with one or more U electro magnetic constructed and arranged substantially as and for the purpose set forth.

No. 35,305.—R. E. DIXON, of New York, N. Y. —Improvement in Tobacco Pouches.—Paich dated May 20, 1862.—This invention consists in combining a small box or case for health a pipe when not in use, with a bag or pouch for containing tobacco, which pouch is kept that from the pipe case by means of a valve covering a hole, and so arranged that, upon with drawing the valve, the pipe-can be readily filled while in the case.

Claim.—The arrangement and combination of the pipe case A, valve g, and tobacco puts B, substantially as described, so as to keep the two entirely separate from each other, but that the pipe can be loaded whenever desired without opening the pouch or without the

of the fingers to load it, as is usually necessary.

No. 35, 306.—A. P. DURANT, of Atlanta, Ill.—Improvement in Combined Cultivator and Seeding Machine.—Patent dated May 20, 1862.—The novelty of this invention consists in arrangement of parts as specified in the claim, the several devices being disclaimed.

Claim.—First, the arrangement of the hopper box with its shaft, operated as described and operated as described.

Second, the arrangement of the sliding beam D with the levers H and I, and in connexist with the cultivator beam G, to enable the driver to operate the same, as described.

No. 35, 307.—W. H. EARNEST, of Clarksburg, Va.—Improvement in Cradles.—Patent dated May 20, 1862.—This invention consists in the application of pivoted stops to the rockers of cradle for the purpose of preventing the motion of the cradle when the baby is asleep, or prevent its falling out by the tilting of the cradle.

Claim.—The employment of pivoted arms G G upon the rocker or rockers of cradles of the

description represented and specified, for the purposes set forth.

No. 35, 308.—N. F. ENGLISH, of Hartland, Vt.—For Photographic Apparatus.—Patent dated May 20, 1862.—This invention consists of an arrangement of movable supplementary lids or flaps attached and fitted to the lid of a trunk or box, whereby the latter may be read. Y converted into a "dark room" of about double the size of the box. Combined with the above

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is a vessel for containing a developing solution, a fountain or vessel for water, and a system of valves, whereby the flowing of the solution over the plate, and of the water for washing off the said solution, are controlled by the hand of the operator outside of the "dark room," and the solution and water are caused to be delivered to the picture from the same tube or conductor, so that the water may wash away all trace of the solution from the conductor after the developing of the picture, and so prevent the staining of the next picture.

*Claim.—The combination with the box A B B C C and the lid D of the end pieces G G, top

piece E, and front piece F, the whole applied and arranged substantially as specified.

Second, combining the water fountain or vessel K and the vessel L, from which the developing fluid is used, by means of valves k p and a shoe piece N, or its equivalent, making one outlet for both vessels, substantially as and for the purposes specified.

No. 35,309.—W. D. Grimshaw, of Newark, N. J., assignor to Himself and C. A. Ten Eyck, of New York, N. Y.—Improvement in Forging Hammers.—Patent dated May 20, 1862.— This invention consists in the employment of a ratchet wheel and pawl connected with the main driving wheel, and between the latter and the cam which raises the hammer, so that the hammer is not obstructed in its fall by the slowness of motion of the propelling power, the what is technically called the "back lash." The driving power and hammer are so arranged that the hammer itself can be made to operate successively upon several anvils set in a circle, so that the heavy parts of hand forging can be readily arranged for several gangs of workmen. An an vessel is also arranged in such a manner that the elasticity of the air can be made to lessen the blow or hold up the hammer, or to increase the force of the blow.

Claim.—First, the lifting slot 5, formed as shown, and arranged in connexion with the crank pm 4, shaft 2, ratchet wheel l, pawl 3, and wheel h, as and for the purposes specified.

Second, arranging the hammer q, arm o, parallel motion bar r, and lifting rod n, in the manner and for the purposes specified.

Third, the arrangement of the wheel h, belt i, shaft f, and pinion e, in combination with the forging hammer and series of anvils, in the manner and for the purposes specified.

Fourth, the air cylinders t, with the valves 10 and 11, in combination with the wheels A and l that 2, rod n, and arm o, to the hammer q, the parts being arranged and acting as and for the purposes specified.

No. 35,310.—E. D. GRIGGS, of Waterbury, Conn.—Improvement in Photographic Albums.—Patent dated May 20, 1862.—The object of this invention is to adapt metallic mats to the leaves of photographic albums, and it consists in securing such a mat in place by providing it with a flanch, which is interposed between the outer sheet of card board or other material which forms either surface of the leaf, and the middle or back piece or body of the leaf, and beld in place by the union of the said outer sheet with the middle or back piece or body.

Claim.—Combining the mat with the pieces A B B, by means of a flanch a a interposed and secured between the said pieces, substantially as specified.

No. 35,311.-W. F. GOODWIN, of Powhatan, Ohio.-Improvement in Breech-loading Ordeance.—Patent dated May 20, 1862,—The nature of this invention will be understood from the claim.

Claim.—First, the method of locking the breech piece with, and unlocking it from, the har end of the barrel, by means of one or more keys passing through the breech and entering recesses in the barrel, as described, and by combining with said keys a system of kyers arranged in relation to the breech handle and the said keys so as to operate the latter in the act of depressing the breech by grasping the handle, as set forth.

Second, the method described of constructing the breech piece in three parts, under the trangement set forth, and when combined with wedges or keys to tighten the breech, and this insure perfect frictional contact of the breech and barrel.

Third, providing the sides of the rear end of the barrel with trunnions upon which to hang the breech, in combination with the steps or projections and grooves, in the manner

and for the purpose set forth.

No. 35,312.—RICHARD GRISWOLD, of Bainbridge, N. Y.—Improvement in Metallic Pens.— Patent dated May 20, 1862.—This invention consists in applying to an ordinary metallic pen a plate which is fitted in the slit of the pen, so as to project both below and above it, for the purpose of rendering the pen capable of holding a large quantity of ink.

Claim.—A pen A, provided with a longitudinal plate B, inserted in its slit a, so as to

Project above and below the pen about at right angles therewith, substantially as and for

the purpose set forth.

No. 35,313.-J. D. and A. M. HALSTED, of Rye, N. Y .- Improvement in Hand Cultivators. Patent dated May 20, 1862.—This invention consists in attaching a set of knives, formed in such a manner as to cut obliquely across the ground, to two arms secured by a clip or clasp h an axic, so arranged as to cut the weeds from the rows of small plants without disturbing ice soil around the roots. The arms may be adjusted to cut between rows of greater on less

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distance apart, and secured in position by means of clamps upon the forked ends of the

Claim.—The combination of the sets of knives 1 1, as described, with the arms 2 2, to which they are attached, and with the clip 5, shaft or axle 3, wheels 4, handle 7, and clamps 8 8, the whole being constructed and arranged substantially as described, and operated as set forth.

No. 35,314.-A. K. HAY, of Winslow, N. J.-Improvement in Glass Furnaces.-Patent dated May 20, 1862.—This furnace is composed of a heating apartment with two fireplaces, a heating platform and two pits, an intermediate compartment with two platforms and a continuation of the said pits, and an annealing compartment; the whole so arranged that the operations of heating, flattening, and annealing may be continuous and rapidly accomplished with a comparatively small cost of construction and with economy in the use of fuel.

Claim.—The described furnace, composed of the heating compartment, with its two fireplaces C and C', platform D, and two pits E E, the intermediate compartment, with its platforms L L, and its continuation of the said pits, and the annealing compartment H, the

whole being arranged substantially as and for the purpose set forth.

No. 35,315.—REUBEN HOFFHEINS, of Dover, Pa.—Improvement in Harvesters.—Patent dated May 20, 1862.—To the inner side of the platform is rigidly secured a post or standard inclining over the rear of the main frame, and supported by a brace rod extending from the draw-bar. On the top of this post is mounted a box which constitutes a bearing, in which a disk is caused to rotate. The rakes or reel arms are mounted in couples in the ends of horzontal shafts which are journaled at right angles across the rotating disk. As each reel arm approaches the rear of the main frame it is turned backward and upward completely over the frame, causing the reel arm which is attached in front to the same shaft, to descend at the side of the wheel, where it operates to present and hold the standing grain to the action of the cutters, and so pass over the platform. Fitted loosely upon a shaft is a clutch pulky. which rotates as the machine moves forward by means of a pin on the shaft taking into notched teeth on the face of the pulley. Around this pulley passes a band, which also passes around a pulley journaled in a stationary segment attached to the top of the inclined post or standard beneath the rake head, which permits the band to conform to the changing angle of the pulley are the conformal of the pulley are the conformal of the pulley are the pulley ar of the pulley, as the outer end of the platform rises and falls.

Claim.—First, a combined reel and rake, rotating upon a vertical axis, and having its arms successively turned up into an inverted position, so as to pass over the main frame

substantially as explained.

Second, the inclined standard I, rigidly mounted upon a loosely hinged platform and employed to support a revolving reel and rake in an unchangeable position in relation to the platform, without obstructing the free motion of the latter.

Third, the yielding and swivelled rod Q, operating in combination with the band P and

pulleys O and R, in the manner and for the purposes shown and explained.

No. 35,316.—J. R. HOWARD, of Worcester, Mass.—Improved Fountain Blacking Brush. Patent dated May 20, 1862.—This invention consists in providing the brush with a reservoir for holding the blacking, between which reservoir and the brush for applying the blacking. is a tube having a stop-cock which is operated by means of a rod extending to the rear of the brush, to let out the proper quantity of blacking. The stop-cock is kept closed by means of a spiral spring on the rod.

Claim.—The described blacking brush, consisting of the brushes, the reservoir, and the

self-closing apparatus, when constructed and operating substantially as set forth.

No. 35,317.—Samuel Keeler and Jacob Barthel, of Lancaster, Pa.—Improvement in Seeding Machines.—Patent dated May 20, 1862.—This invention consists in making one or both of the flanges adjustable, by keeping them on the shaft more or less removed from the central core or ridged cylinder, the ridges rising from the core or central axis of the cylinder as high as the flanges, being inserted diagonally, the object being to obtain the advantage of open cells, and at the same time to obviate the tendency to clog their delivery when the drill becomes inclined on hillsides.

Claim.—The improvement in the cylinder, by making it with flanges adjustable, as

described.

No. 35,318.—JOHN LEMMAN, of Cincinnati, Ohio.—Improved Mortising Machine.—Patent dated May 20, 1862.—This invention relates to an adjustable provision for cutting mortises of any desired upward or downward curve, or perfectly straight, or for boring one or more round holes either in straight or curved lines, the device being more particular. designed for making the curved and other mortises of chair stuff.

Claim.—The mode of supporting and guiding the mandrel on the curved bar F, adapted

for vertical and angular adjustment, substantially as and for the purposes set forth.

No. 35,319.—W. A. LIGHTHALL, of New York, N. Y.—Improvement in Condensers for Making Potable Water.—Patent dated May 20, 1862.—This invention is designed as an improvement upon the apparatus for which patents were granted to the said Lighthall, on December 17, 1-61, and April 22, 1862; and it consists in dispensing with the "drip-plate" described in the aforesaid patents, and in so arranging and constructing the discharge-pipe for the discharge of the water of condensation as to retain within the bottom part of the condenser (forming the reservoir thereof) a sufficient quantity of the water of condensation to cover the lower ends of the division plates, so that the steam entering into the condenser shall be passed from section to section as though the "drip-plate" were used.

Claim.—The combination of the discharge-pipe A with the series of cooling tubes D,

arranged and operated as and for the purpose set forth.

No. 35,320.—EDWIN MAY, of Indianapolis, Ind.—Improvement in Apparatus for Casting Bullets.—Patent dated May 20, 1862.—This invention consists in a method of casting conical and hollow bullets, and swaging the same while the lead is in a plastic state, making the bullets without a neck and ready for use as they leave the moulds.

Claim.—First, the casting of conical and hollow bullets, and swaging the same while the lead is in a plastic state, by means of the moulds i i, in combination with the plungers hhkk and the springs e e e e, when constructed and operated substantially as and for the

purposes set forth.

Second, the adjustable moulds i i and clamps j, in combination with the lever a and d. when constructed and operated substantially as and for the purposes set forth.

No. 35,321.-J. H. MEAD, of New York, N. Y.-Improved Soap Cups for Washstands, &c. -Patent dated May 20, 1862.—This invention consists in providing the bottom of the dish with a series of recesses and projections formed with the dish, so that when soap is laid thereon it will not come in contact with any water that may escape from the soap into the

Claim.—As a new article of manufacture and trade, a dish or vessel having its bottom constructed substantially as described, and for the purpose set forth.

No. 35,322.-J. W. Moore and W. H. Elliot, of Plattsburg, N. Y.-Improvement in Lanterns for Marine Telegraphs.—Patent dated May 20, 1862.—This invention consists in the employment of several glasses of different colors, with one light, so arranged in relation to the reflector and the other portions of the lantern, as to be made to produce lights of several different and distinct colors, in any required order. The outer case, lamp, chimney, and chimney cap remain stationary, while the colored glass and the reflectors are caused to tevolve by means of a spring.

Claim.—First, the alternate arrangement of the colored glasses m with the opaque divisons n, when these are employed with opening j in the outer shell a, as and for the purpose

specified.

Second, the alternate of the glasses m and reflectors n in the revolving lantern b, as and for the purpose specified.

No. 35,323,-J. B. MURRAY, of New York, N. Y .- Improved Mode of Collecting Letters m Street Railroad Cars.—Patent dated May 20, 1862.—The nature and object of this inven-

tion are explained by the claim.

Claim.—Collecting and conveying letters and other mail matter to the post office, in towns and cities, by means of properly secured letter boxes or other suitable repositories for the reception of drop-letters, in combination with street railway cars, or other suitable public vehicles, such as are used for local passenger conveyance on stated routes in towns and cities, substantially as described.

No. 35,324.—J. H. NEWCOMB, of Port Norris, N. J.—Improvement in Dredging Machines.

Patent dated May 20, 1862.—This invention consists in attaching to the frame of an ordinary decision making. hary diedging machine, guards or fenders so constructed as to act as aids to the teeth during process of dredging, and also to prevent the teeth from catching or becoming fastened under the rails or chocks of the vessel, as the apparatus is raised from the water to the deck of the vessel.

Claim.—The application of guards or fenders c d c c' d' c' to machines for dredging oysters, coal, or other sunken objects, said guards or fenders being constructed and operating substantially in the manner and for the purposes set forth.

No. 35,325.—HENRY REDLICH, of Chicago, Ill.—Improved Apparatus for Corking Bottles.—Patent dated May 20, 1862.—This invention consists in the employment of a wooden or metallic box having a conical bore, the lower and smaller diameter of which corresponds with the orifice of the neck of the bottle to be corked, the said box being provided with a plunger, and also with a cap fitting upon it like an ordinary box-lid, which serves as a guide to the panger. The cork being placed within the box, is forced through it into the bottle.

Claim.—The box A, provided with an inverted conical bore B and plunger D, incomplication.

bination with the movable cap C, substantially as and for the purpose set forth by

No. 35,326.—W. B. RYAN, of East Pembroke, N. Y.—Improvement in Potato Diggers.—Patent dated May 20, 1862.—The shaker consists of a number of prongs connected to a back piece, which is hinged to the rear edge of the cutter. The outer prongs of the shaker are connected by rods to a rock-shaft, to which a vertical motion is given by means of arms and trips upon a wheel or disk connected to the hub of the driving-wheel. Hinged to the draught pole is a rectangular frame arranged to be raised by means of a lever, which also raises the cutter from the ground, the rock-shaft being thrown out of gear, while the machine is moved to and from its field of operation.

Claim.—Giving the shaker L an up-and-down percussive motion, as distinguished from a horizontal vibrating motion, by means of the rock-shaft K and arms K', wheel a, trips a'.

and constructing rods M, substantially as set forth.

Also, the hinged frame G, in combination with the shaker L, arms H, rods F and M, and cutter E, for the purposes and substantially as described.

No. 35, 327.—O. SAGE, of Wellington, Ohio.—Improvement in Cheese Vats.—Patent dated May 20, 1862.—The furnace, which is supported in the bottom of the water box, is oblong, and has a converging top, provided with a series of short inclined pipes passing through is upper part, which communicate with the water at each end, for the purpose of obtaining a quick and even heat, which, in turn, is communicated to the milk.

Claim.—The combination with the lower part of the water box or chamber of an oblong or top-inclined furnace, having inclined cross tubes, the parts being arranged in relation to

each other as and for the purposes set forth.

No. 35,328.—F. A. Salisbury, of Greene, N. Y.—Improved Knife-cleaning Box.—Patent dated May 20, 1862.—This invention consists of a sliding box having a perforated bottom through which the polishing powder is sifted, the said box being secured over a rubber in such a manner as to be capable of being moved on either side so as to emit the powder or prevent it from discharging when the box is in place, the whole to be enclosed within a box when not in use.

Claim.—As a new article of manufacture, the polishing box D, having a wire gauze or a perforated bottom, in combination with the rubber C, the whole being arranged, operated, and incased in the box A, substantially in the manner described and for the purposes specified.

No. 35, 329.—GERARD SICKLES, of Roxbury, Mass.—Improvement in Metal Plates for Protecting the Soles of Boots and Shoes.—Patent dated May 20, 1862.—This invention is ex-

plained by the claim.

Claim.—As a new article of manufacture, a protector for the soles of boots and shoes, consisting of a small disk of metal, formed with sharp points or spurs around its periphery, projecting at right angles to the plane of the disk, and adapted to secure it to the sole by driving into the leather, as described.

No. 35,330.—Nelson Silvester, of Granger, Ohio.—Improved Foot Corn Planter.—Patent dated May 20, 1862.—The platen is strapped to the sole of the foot of the operator, and, as the corn is dropped through the receiving tube, the operator, in the act of walking forces the lower end of the planter into the ground, and the piston, which is attached to the platen, forces the corn into the ground. Attached to a lever, which is operated by the motions of the piston, is a shovel, which serves to cover up the corn by scraping the soil into the hole made by the piston, as the latter is raised.

Claim.—The lever J and shovel I, in combination with the platen G and piston H.

arranged and operating as and for the purposes set forth.

No. 35,331.—S. E. SOUTHLAND, of Jamestown, N. Y.—Improved Device for Fastening Cattle.—Patent dated May 20, 1862.—This invention consists in the arrangement of two neck bars or stanchions in a suspended frame, so constructed as to swing forward and back: also, in the arrangement of two neck bars, each made of two parts, connected together by pivots, and attached to each other by means of a hinge joint, in combination with a round bar, from which the neck bars are suspended, and to which one of the same is attached, so that it is prevented from moving in a longitudinal direction, while the other is free to slide on the suspension rod towards and from the said neck bar, so that by drawing the upper ends of the necklace together on the neck of an animal, the latter is secured, and, by opening the neck bars, the animal is released. A longitudinally sliding bar is so arranged in connexion with a series of neck bars that, by the motion of the sliding bar, the neck bars may be simultaneously closed or opened, and a number of cattle can be fastened or unfastened at once.

Claim.—First, the arrangement of the suspended swinging frame D, so constructed by means of hinged joints, or their equivalents, as to swing forward and backward in combination with neck bars A A', or their equivalents, constructed and operating substantially as

and for the purpose set forth.



Second, the neck bars A A', connected at the bottom by a pivot c or its equivalent, and so enstracted as to open and close, and to swing forward and back, and right and left, subtantially in the manner and for the purpose shown and described.

Third, the arrangement of the longitudinally sliding bar E, in combination with the winging neck bars A A', constructed and operating substantially as and for the purpose

pecified.

No. 35,332.—John Sperry, of New York, N. Y.—Improvement in Veneer-Cutting Sachines.—Patent dated May 20, 1862.—This invention consists in suspending the table or attern which carries the logs from two or more pivots inserted in disks or arms attached to be ends of rotary shafts in such a manner that, by imparting to the said shafts a rotary scallaung motion, the log carrier receives a compound motion around the centres of said hats, and in a direction parallel to a line drawn through the said centres, by which means he log is brought in contact with the knife by a rotary drawing motion, and the cutting persuon considerably facilitated.

Claim.—Suspending the log carrier A or the knife F from two or more pivots a, projecting from rotary or oscillating arms or disks B, substantially in the manner and for the purpose

hown and described.

Al-o, imparting to the log carrier or to the knife a rotary drawing motion, substantially ach as described, for the purposes set forth.

No. 35,333.—W. T. Spies, of Baltimore, Md.—Improvement in Railroad Car Coupling.—
'atent dated May 20, 1862.—This invention consists in the employment of a movable block
into or other suitable material, which is inserted in the opening of the buffer for the
opping bolt to rest upon before dropping into its place. A notch is made on the face of the
lock to hold the coupling link in position, so as to enter the opposite buffer. The seat of
the buffer is made convex on its inner side, to adapt it to the connecting link, and the latter
made concave on one edge and convex on the other, so as to admit of its being raised or
wered to meet the opposing buffer.

Claim.—The combination and arrangement of the movable block, with its notch for holdig and regulating the coupling link with the concave and convex form of the coupling link, at the convex form of the inside seat of the buffer, in the manner described, and for the

whose of forming a self-coupling buffer for the connexion of railroad cars.

No. 35,334.—C. B. TATHAM, of Brooklyn, N. Y.—Improvement in Apparatus for Casting finic Bulls.—Patent dated May 20, 1862.—The object of this invention is to insure the mitality of the hole in the base of the ball, and also to insure a sound casting. Instead of ispending the cores within the chamber from a movable cap, they are so arranged that is separately held centrally in place within its chamber by the pieces which form the lamber, so that the variation of expansion carries the cores in the same direction, and sy are always held in the same relative position in the centre of the chamber. Instead of sking the ball point downwards, and filling the moulds at the base of the ball through has at the side of the cores, as is usual, they are cast point upwards, and filled at that end bler a considerable head of surplus metal, so that the point of the ball is formed last, and whead or pressure of the metal insures a solid casting. The cores are so arranged that may be suithdrawn at the bottom before the moulds are opened, for the purpose of faciliting the removal of the balls from the mould.

Claim.—First, the means, substantially as described, of forming the hole in the base of the it by a core held in its place within the chamber by its contact with the piece or pieces bith form the same, so that any expansion or motion of the mould will carry the cores

elewith, and maintain their central postion within the chambers.

Second, in combination with means substantially as described, of preserving the centrality in comes under movements or varying expansion of the mould, removing a number of ich cores, and returning them to their places at a single operation, by the means sub-

antially as described.

Third, in combination with means substantially as described, of preserving the centrality the cores, and with means substantially as described of removing and returning to their area a number of such cores, the use of chambers, so located and arranged as to be filled easily the points thereof, and to allow the motal to set under a head, with the points of the dischirected upward, for the purpose of simplifying the construction of the apparatus, and in the solidity of the balls.

No. 35.335.—MINER VAN AUKEN, of Amsterdam, N. Y.—Improved Clothes Wringer.—alent dated May 20, 1862.—The under pressure roll-r is composed of two "lever" cores, but intrior being of conical form, having their bases at the extremities of the cores, and between passed by a cylinder of rubber. Above the rollers is placed a spring formed of a ligic piece of suitable material, with kerfs in each end of varying length, thus forming sing seaves. The power of the spring is regulated by a crank screw passing through the intre of the upper brace bar, which permits a rocking motion of the spring. To the centre

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of the lower brace bar is attached a knee provided with a set screw for the purpose of securing the wringer to the washtub. Applied to the frame is an arm which receives eccentric levers having near their ends a relief roller for the purpose of guiding the clothes from the pressure rollers to a receptacle outside of the tub.

Claim.—First, the application and use of one or more lever cores A, or their equivalents,

substantially in the manner and for the purpose set forth.

Second, the spring G, or its equivalent, constructed and applied substantially in the manner and for the purpose set forth.

Third, in combination with the boxes F and crank screw H, extending the lower limb = of the spring G, outside the standards A, or in an equivalent manner supplying the means whereby the lateral movement of the spring may be prevented, as described.

Fourth, the application of the lever screw H, or its equivalent, in such manner as to

permit of the oscillation of the spring G, substantially as described.

Fifth, the application of a single lever knee P, or its equivalent, to the girt C, substantially in the manner and for the purpose set forth.

Sixth, the eccentric lever arms V, or their equivalents, for the purpose set forth.

Seventh, one or more relief rolls, or their equivalents, as and for the purpose set forth.

No. 35,336. J. E. THOMSON, of Buffalo, N. Y.—Improvement in the Manufacture of Illuminuting Gas.-Patent dated May 20, 1862.—The nature of this invention is explained by

Claim.—The manufacture and use of an illuminating gas produced by a combination of petroleum or rock oil, or other hydrocarbon gases, petroleum being used by preference, with combination gases produced by the action of water in a spheroidal state on hydrocarbon vapors, substantially as described.

No. 35,337.—Julius Thompson, of Taunton, Mass.—Improvement in Screwdrivers.— Patent dated May 20, 1862.—This invention consists in providing the screwdriver with a short bar or arm pivoted near its point so as to act as a lever in driving a screw 'home.'

Claim.—The combination of the lever B with screwdriver A, substantially as described

and for the purpose specified.

No 35,338.—Madison Vedder, of New York, N. Y.—Improvement in Catamenial and Urinal Bundages and Receptacles .- Patent dated May 20, 1862 .- The nature of this invention will be understood by reference to the claim and engraving.

Claim.—First, the combination of the catamenial receptacle A and urine pouch B, substantially as and for the purpose specified.

Second, providing for the ventilation of a catamenial receptacle by means of holes is in the

sides thereof, sub-tantially as set forth.

Third, making the connexions C C' between the front and back of the catamenial receptacle and the girdle, which attaches it to the body or any portion of such connexions, of tubular form, whereby they are made to serve the additional purpose of ventilating the receptacle. substantially as specified.

No. 35,339.—Julius Von Hope, of New York, N. Y .—Improvement in Tips for Fishing Rods.—Patent dated May 20, 1862.—This invention consists in the employment of a tip formed with projecting jaws receiving between them a sheave, and provided with a guide or guides for the purpose of preventing the cord or line from getting off the sheave or being cut or entangled while in use.

Ctaim. -The fishing-rod tip formed with the guide o and receiving the sheave i, in the

manner and for the purposes substantially as specified.

No. 35,340.—C. H. Walker, of Warren, Mass.—Improved Chest of Drawers.—Patent dated May 20, 1862.—The object of this invention is to provide a receptacle capable of holding in a compact form all the articles generally used by housekeepers in the performance of their bousehold duties.

Claim.—As a new article of manufacture, a chest A', provided with drawers A, sieve E drawers C D E, adjustable moulding board F, extension I, slide M, and closet N, all arranged in the manner and for the purpose described.

No. 35,341.—GUSTAV WEDEKIND, of Philadelphia, Pa.—Improved Shade Holder for Gas Burners or Lamps.—Patent dated May 20, 1862.—This invention consists in forming it. ring of the shade holder with an opening at one side, and providing one end with a tongue which passes into a hole in the other end, where it is secured like a strap, by means of which the shade may be securely held upon the gas burner. The braces which connect the upper and lower rings or wires are bent in such a manner as to support a chimney when necessary.

Claim.—The combination of the clasp, open ring, or buckle d, with a shade holder, sub-

stantially as and for the purpose set forth.

Also, in combination with the shade holder, the supports i in the braces for holding a chimney or protector, substantially as described. Digitized by Google

No. 35,342.—C. S. WESTCOTT, of New York, N. Y.—Improved Device to Prevent Opening Letters without Discovery.—Patent dated May 20, 1862.—This invention consists in placing upon an envelope or letter a device or inscription in an ink or paint so soluble in water that moisture cannot be applied to open the envelope, &c., without defacing the same.

Claim.—The formation of any letter, inscription, or device, upon a letter, envelope, or material to be used as a seal, in an ink or paint which will be destroyed or defaced by an

attempt to open a letter, envelope, or package, upon which the same is placed

No. 35,343.—J. R. WHITTEMORE, of Chicopee, Mass.—Improvement in Rakes for Harrestrs.—Patent dated May 20, 1862.—This device is designed to be applied to reapers or harvesters in which the grain is made to fall on a table or platform on the machine after being cut, from which platform it is to be raked when a sufficient quantity is cut to form a bunch of suitable size. Upon a horizontal shaft, to which motion is communicated from the main shaft, is a pinion working in a gear, the back of which forms a cam plate. Upon the cam plate is a stud or pin which works in a cam slot in a lever fulcrumed to an arm on the frame. This lever is provided with two arms, which form bearings to support a short shaft to which the rake is attached. The rotation of the cam plate imparts to the rake a swinging reciprocating motion. By means of a series of two or more concentric gears on the under side of the cam plate, the latter can be so arranged with the pinion as to cause a more rapid totation when necessary, to make a more frequent removal of the hay from the platform.

Claim.—The combination of the rake O and plate cam G, when arranged substantially in

the manner and for the purpose described.

No. 35,344.—HOSEA WILLARD, of Vergennes, Vt.—Improved Looking Glass.—Patent

duel May 20, 1862.—This invention is explained by the claim.

Claim.—As a new article of manufacture, a mirror or looking-glass for domestic or household use, constructed of a plurality of panes placed in contact with each other so as to form a longitudinal section of a polygon, as set forth.

No. 35,345.—E. C. WILSON, of Peekskill, N. Y.—Improved Stair-Rod Holder.—Patent dated May 20, 1862.—The stair-rod is held in place by a clasping spring, the back of which is satened at the top to the riser of the step, and its lower end is satened to the tread or horizontal part of the step by a small point which pierces the wood. The spring turns upward with a curve, and yields so as to admit of the rod being pushed down through the opening at the top.

Claim.—The application of the clasping spring b with back c and point a, all arranged as

s stair-rod holder, substantially as described.

No. 35,346.—ISAAC WINSLOW, of Philadelphia, Pa., assignor to J. W. Jones, of Portland, Maine.—Improved Process of Preserving Green Corn.—Patent dated May 20, 1862. This invention consists in sealing up the corn after its removal from the cob, and the boiling or steaming the same without allowing the corn to come in contact with the water or steam.

Claim.—The described process of preserving Indian corn in the green state, without drying the same, the corn being scaled hermetically in cans or other vessels, and then exposed wheat, substantially in the manner and for the purposes set forth.

No. 35,347.—T. C. Ball, of Springfield, Vt., assignor to Himself, D. M. SMITH, H. H. MASON, and A. C. MASON, of the same place.—Improvement in Blind and Shutter Sup-porters.—Patent dated May 20, 1862.—In the lower cross-piece of the blind there is fitted renically a catch formed of a pin having a square loop or eye at its lower end, and which is kept in a raised position by a spring. Secured to the sill and to the building are hooks, each having a bevelled surface and a recess so that the catch readily passes over either hook, and the blind will rest upon the same, and so be prevented from sagging.

Claim.—The combination of the catch D with the blind and the lifting hooks E F, in the

manner and for the purpose shown and described.

No. 35,343.—John Howe, Jr., F. M. Strong, and Thomas Ross, of Brandon, Vt., assignors to JOHN HOWE, JR .- Improvement in Portable Platform Scales .- Patent dated May 20, 1832.—The object of this invention is to obtain a platform scale which will be ca-jude of being folded in a compact form when not required for use, the parts being protected was not to be liable to injury in transportation, and at the same time admit of being readily ajusted for use.

Claim.—First, the lever frames B B' and platforms C placed within the lower part A of a hax, in combination with the beam G placed within the upper part or cover F of the box, and connected to the lever frames, as shown, and all arranged in such a manner as to admit "the part or cover F, when the scales are not in use, being folded down on the part A to torm a receptacle for the scales, as set forth.

Second, the slide L and arm p, or their equivalents, when placed within the box or the cover thereof, and in relation with the beam G, as shown, for the purpose of raising the fulcrum

h of the beam off from its bearings, and preserving them from wear.

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Third, the elastic bearings O O', in combination with the scale and box, all arranged as and for the purpose set forth.

Fourth, the hook k and spring l, when used in connexion with the box and scale, and placed in such a relation with the weight supporter I as to properly hold the same when the

box is in a closed state.

Fifth, the rod or shaft i, provided with the plate u and fixed weights t, substantially as shown, for the purpose of holding the scale weights s, when not in use, within the box, as set forth.

No. 35,349.—C. F. MARTINE, of Dorchester, Mass., assignor to Himself and R. H. E. ERSON, of Lynnfield Centre, Mass.—Improvement in Lamps.—Patent dated May 20, 1862.—This invention consists in attaching to the lamp a tube of sheet metal, of somewhat greating that the wick tube, and extending above it, so as to encircle the lower part of the form for the purpose of assisting, by the heat which it retains, in consuming the small and gases; the device being designed to be applied to kerosene lamps without a chimney.

Claim.—The tube C, open at both its top and bottom, its lower end being at or near the top of the wick tube, and its upper end projecting above the wick, the whole constructed arranged, and operating substantially in the mauner and for the purpose specified.

No. 35,350.—J. M. Moss, of Waverly, Iowa, assignor to Himself and E. H. WILLIANof Clermont, Iowa.—Improvement in Pans for Evaporating Saccharine Juices.—Patent date!
May 20, 1862.—This invention consists in so constructing the flue and pans in which the
evaporation is completed that the opposite sides of the pans may be alternately raised at
lowered, by which means the sirup may be constantly exposed in thin films to the air deing the process of evaporation. In connexion with an arrangement of shafts is a series of
geared wheels, to which are attached cranks or eccentrics made to operate slides, for the pupose of raising and lowering the sides or ends of the part in which the evaporation is completed more or less rapidly, according to the heat of the fire. The pans and operating machinery are so constructed and arranged that either of the parts in which the evaporation is
completed may be left at rest, or one end or side alone may be operated.

Claim.—First, the construction of an evaporator so that the opposite sides or ends of the pan or pans may be raised and lowered alternately at the will of the operator, thereby thoroughly stirring the contents of the pan or pans, and cooling the bottom or bottom.

thereof.

Second, the construction of an evaporator with pans or a pan that one side or end of which

may be raised and lowered more or less rapidly, at the will of the operator.

Third, the construction of an evaporator with a series of pans, in which the finishing pan or the pans in which the evaporation is completed, are raised and lowered in the manner set forth and described.

No. 35,351.—John Power, of Boston, and A. J. Bailey, of Charlestown, Mass. asignors to Peter Holmes, of Charlestown, Mass.—Improved Machine for Cattage Cor. Stoppers for Bottles and other Vessels.—Patent dated May 20, 1862.—This invent on cersists in the employment of a reciprocating knife, in connexion with a rotary mandrel, a ranged in such a manner that the mandrel will have a continuous rotary motion in one and it exame direction imparted to it by the reciprocating movement of the knife, and the latter, during its movement, be automatically adjusted so as to rough off the cork during its movement in one direction, and give the finishing cut during the other movement in the opposite direction thus causing the cork to be cut by a single knife at one operation.

thus causing the cork to be cut by a single knife at one operation.

Claim.—First, the combination of the reciprocating cutter L and rotating mandres C, when arranged substantially as shown, so that the latter will have a continuous rotary motive imparted to it in one and the same direction by the reciprocating movement of the cutter, for

the purpose set forth.

Second, the cap K of slide I, with the knife L and spirally grooved shafts J J attached, in combination with the sliding rack O, pinions N N, and pins h h', arranged substantially as shown, for elevating and depressing the knife L, for the purpose specified.

No. 35, 352.—OSMOND REED, of Paris, Mich., assignor to Himself and A. D. CHESEBER. of the same place. —Improved Hay Rigging.—Patent dated May 20, 1862. —Attached to to body of the wagon is a series of arms a projecting over the sides, to which arms are pive other arms e in such a manner as to be readily adjusted angularly with the projecting arms. The ends of the outer arms e are provided with hooks for the purpose of holding ropes up the load. When not required for use, the outer arms may be folded upon the inner arms.

Claim.—First, the wooden or iron arms, constructed in the form substantially as and for t.

purposes described.

Second, the adjustable joint at the end of the projecting arms, for the purposes describe: Third, the vertical arm with the hook or ring at the top, for the purposes described.

No. 35,353.—Joseph Rusch, of New York, N. Y., assignor to Himself and Joseph Lux. of the same place.—Improvement in Attaching Armor Plates to Vessels.—Patent dated Max

30.1862.—Upon the ordinary planking of the vessel is placed an additional planking, over which the plates are secured by means of a clamp bevelled at its rear end and notched at its orward end to fit into recesses in the plates, the clamp being fastened by a screw entering its ear portion, so that the gravitating or dead weight of the armor plating rests principally upon ar outer planking, while the strain on the screws is comparatively light.

Claim.—The combination of the additional planking or bed B B, bolt C, continuous clamp

), and grooved armor plate E E, all constructed and applied in the manner and for the pur-

escs shown and described.

No. 35, 354.—J. M. SEYMOUR, of Boston, Mass, assignor to E. H. ASHCROFT, of the same—Improvement in Gas Check for Breech-loading Fire-arms.—Patent dated May 20, 2.—The breech plug tapers down at its front end to a sharp or bevelled edge, and abuts rainst a shoulder made in the barrel. The external surface of the breech plug is curved arthwise so as to admit of a space between the breech plug and the internal surface of its scart for the purpose of allowing the breech plug to be expanded laterally by the force of the expansion, and at the same time causing it to be elongated a little so as to be forced against the shoulder or into the angular space of the front part of the breech plug socket, the object be ug to produce a gas-tight joint between the breech plug and its seat.

Clum.—The space a and the shoulder d, arranged and combined with the expansive breech ing and its socket, substantially in manner and so as to enable the said breech plug to operate

is specified.

No. 35, 355.-W. C. Vosburgh and W. A. Ludden, of Brooklyn, N. Y.-Improvement in be Means of Attaching India-rubber to Pencils.—Patent dated May 20, 1862.—This invention wasts in the employment of semi-cylindrical clamps and a ring or rings to bind the clamps tpon both the pencil and the rubber, so that the rubber can be projected more or less from the lamps, by which means the rubber is readily applied to the pencil and a new piece substituted then necessary.

Claim.—The employment of the semi-cylindrical clamps b b, formed as specified, and a ing or rings d, in combination with the section of India-rubber c, and the pencil or pen-

andle a, for the purposes as set forth.

No. 35, 356.—HENRY KELLOGG, of New Haven, Conn.—Improvement in Breech-loading fire-arms.—Patent dated May 20, 1862.—This invention consists in the employment of a and or catch for holding the barrel of the arm in close connexion with the breech for disharge, and so arranged in combination with the trigger that the arm cannot be discharged mid the barrel is securely fastened to the stock, whence it may be released again for loading. Thollow punch is so arranged that, in the act of closing the breech, (a charged cartridge aving been previously inserted,) the said punch will be forced through the end of the cartidge, and the hollow space through the punch connecting with the cap tube will allow the two passage of the flame from the detonating cap through the said hollow punch to the owner contained in the cartridge for the purpose of ignition. Underneath, and moving a.u.el with the barrel, is a movable spindle, to which is attached a cross-head working in lots in the stock. To the spindle is fixed a spring catch, the point of which, when the and is closed, will pass under the rim of the cartridge to remove the case from the barrel ther the discharge, or the cartridge without discharging if required.

Claim.—First, the combination and arrangement of the pawl or catch D with the trigger F,

Perating in the manner and for the purpose substantially as set forth.

Second, the combination and arrangement of the spindle H, cross-head K, and slots L, in be Dianner and for the purpose substantially as set forth.

Third, the spring catch f in combination with the spindle H, cross-head K, and slots L, in be manner and for the purpose substantially as described.

No. 35,357.—Samuel Barlow, of Stakehill, Middleton, England.—Improvement in Ap-Metatus for Bleaching and Cleaning Textile Fabrics.—Patent dated May 27, 1862.—Patented a England, July 23, 1853.—This apparatus consists of two closed metallic vessels termed kiets," which are connected with each other by pipes, forming communication from the Prof each to the bottom of the other, and with provision by which steam of considerable firstine can be admitted alternately to the top of either "kier," so that fluid admitted into se top of one kier can be expelled therefrom by steam pressure forcing the fluid through the in this kier into the top of the other; and by stopping the supply of steam the kier into which it was first admitted for the purpose above named, and by admitting to the other kier which contains the fluid, it may be forced back through the material conained in the said kier to the top of that one into which the fluid was first admitted. Within and the bottom of each kier is a plate perforated at its edge, and so shaped as to leave a space etween it and the bottom of the kier. From this plate extends upwardly a perforated pipe, hich causes the liquid to be discharged within the bulk of the material to be cleansed in be kiers.

Claim.—The combination of closed kiers, so arranged that, by direct pressure of steam ithin said kiers, bleaching or cleansing liquid can be forced interchangeably from one to the other, and through the textile material contained in one or both kiers, substantially as described, by which the goods or materials are subjected to the action of bleaching liquid

and of steam, alternately, for the purpose specified.

Also, the combination of a perforated pipe or pipes, or distributor or distributors, with a plate perforated at its outer edge, when arranged within a kier so as to admit cleaning liquid through the said perforated pipe or pipes within the bulk of the pack of goods, at to discharge said liquid from said goods through said plate.

No. 35,358.—Peter Bauer, of Newark, N. J.—Improvement in Skates.—Patent day May 27, 1862.—This invention consists in the employment of two lugs or supports attact. to one end of the toe strap, in combination with a sliding clasp attached to one end, a catching over suitable pins or projections secured to the other end of the toe strap. is imparted to the sliding clasp in dovetailed guides by means of a screw, which tights the toe strap, the lugs firmly supporting both ends of the screw, and preventing it it. bending.

Claim.-The clasp E, consisting of a dovetailed guide i, with two lugs j k, in combinative

with the slide g and screw f, as and for the purpose specified.

No. 35,359.—Andrew Black, of New York, N. Y .- Improved Machine for Making Mould Candles -Patent dated May 27, 1862.—This machine consists of a bonzon: rotating table divided radially to its centre into any number of equal sections, each one which has secured to it a rack for the reception of the moulds, and at one side of or in the of which is placed a series of spools. From these spools and through a perforated board to wick is supplied to the moulds when the latter are brought in proper position by the rouse of the table. The moulds are divided vertically through their centre for the reception of the wicks and removal of the candles, clamps being used to receive the wicks from the spool if their introduction to the moulds, and to retain them in the moulds before and during in

process of pouring the tallow therein.

Claim.—First, the combination of a horizontally rotating mould table and a series of wick spools E E, arranged in a stationary rack or stand D, substantially as specified.

Second, the combination with the horizontally rotating mould table and the series of with spools E E of a perforated wick board H, and a system of wick clamps G G, substantia ! as specified.

Third, the employment for moulding candles of divided moulds, constructed to opens

substantially as described.

Fourth, the arrangement of the moulds to slide, substantially as described, on horizonracks C C, curved by a horizontally rotating table.

No. 35,360.—GILBERT BROOKS and WILLIAM OGDEN, of Waverly, N. Y., assignment Themselves, WILLIAM BROOKS, of Waverly, N. Y., and C. C. BROOKS, of Athens. N. Y. Improvement in Grain Sieves.—Patent dated May 27, 1862.—This device is designed at the control of the c applied to a common fanning mill for the purpose of separating wheat from cats. In nature of the invention is explained by the claim.

Claim.—A compound sieve, composed of a succession of sieve plates B C D, one conanother, and each having imperforated, perforated, and imperforated elevations alternated and the imperforated and perforated divisions of the several sieve plates following in successions

sion below one another, substantially as and for the purpose specified.

No. 35,361.—GARDNER CHILSON, of Boston, Mass.—Improved Broiling Apparatus— Patent dated May 27, 1862.—From the rear part of the gridiron projects downwards a : ** or heat intercepter, behind which is an opening or escape passage communicating with the interior of the stove, and leading from a cover or case placed over and surrounding the grant iron. At the rear part of and extending across the gridiron is also placed a plate or zatto keep the steak from overlapping the opening or escape passage.

Claim.—The combination and arrangement of the gridiron A, the cover or case D.

intercepting plate B, and the escape passage C.

Also, the arrangement and combination of the guard E with the gridiron A, and :: - -D provided with an opening C, and the intercepting plate B, as described.

No. 35,362.—CHARLES CHINNOCK, of Brooklyn, N. Y.—Improved Corkserex.—P. dated May 27, 1862.—The shank of the screw slides freely in the frame, and, as the is turned, the screw enters the cork until the shoulder of the crank rests upon the in-By continuing to turn the crank, the rotary motion of the screw causes the cork to rise the same, and the cork is thus drawn from the bottle.

Claim.—The combination of the frame a with the screw b and shoulder c, substantial :

and for the purpose specified.

No. 35,363.—C. T. CLOSE, of New York, N. Y.—Improvement in the Manufacture... Lamps.—Patent dated May 27, 1862.—This invention consists in forming the base and of the lamp in one or more parts, so as to clasp the bottom part of the glass globe or veswhich contains the oil, the parts being secured by means of screws or rivets?

Claim.—The combination of the globe or vessel 1, and base 2 2 2, constructed and arranged substantially as set forth.

No. 35,364.—EDWARD COX, of Covington, Ky.—Improved Defensive Armor Plates.—Patent dated May 27, 1862.—The object of this invention is to fit together and combine the marginal portions of the several plates by means of tongues and grooves, whereby they are so locked as to hold each other, both longitudinally and vertically, and the necessity of using plates of very large size is obviated.

Cisim.—Having the plates constructed with grooves and tongues ab, fitting together in the peculiar manner shown and described, so that the plates will be locked together both

horizontally and vertically, all as set forth.

No. 35,365.—W. V. DABOLL, of Cranston, R. I.—Improvement in Street Sweeping Muchines.—Patent dated May 27, 1862.—This invention relates to the construction of the brush cylinder, so as to provide for the wear and replacement of the brush material. The brush cylinder is composed of two cast-iron hubs secured upon each end of the shaft. From these hubs project a number of radial arms upon which the brushes are adjusted, two opposite arms in each hub holding one brush by passing through the ends of the same. The brushes are held in proper position by means of spiral springs and a sliding collar upon each arm. By moving the said collars towards the ends of the bars, the brushes are set out from the centre and made available until worn out. The brush cylinder is raised from the friction diving rollers by means of a bent lever connected by a cross-bar to a hand lever, and held in an elevated position by a hook and catch.

Claim.—First, the combination of the shaft k, the hubs h h, the radial arms f f f, the springs s s s, the collars n n, with the brushes I I I, substantially as described, for the

purpose specified.

Second, in combination with the brush cylinder, as arranged, the levers B and T, with suitable connexions, in combination with the hook V, or an equivalent fastening, operating substantially as described for the purpose specified.

No. 35,366.—PERRY DICKSON, of Utica, Minn.—Improved Water Wheel.—Patent dated May 27, 1862.—The water wheel, which is placed loosely on the shaft, is formed of a circular bottom plate having buckets attached permanently to its upper surface. near the edge. These buckets are curved, so as to receive supplemental buckets, which are allowed to slide freely in and out of the permanent buckets, and are connected with the shaft by means of levers and a collar in such a manner as to be self-adjusting, and made to open and close, so the such as the issues or discharge orifices of the wheel will always be proportioned in area to the power required of the wheel, thereby avoiding a useless expenditure of water when the wheel is running and driving machinery requiring less than its maximum power.

Claim.—A water wheel fitted loosely on its shaft A, and connected therewith by springs, and provided with adjustable buckets c, connected with the shaft by levers B' and collar C,

or equivalent mechanism, all arranged to operate as and for the purpose set forth.

No. 35, 367.—HENRY DUNPHY, of New York, N. Y.—Improvement in Cloth-plaiting Machine.—Patent dated May 27, 1862.—Upon a suitable bed piece are arranged holders which freely slide in grooves in the bed. The holders are made with a mortise lengthwise for receiving and locking the blades or folders, which latter consist of a series of metal blades with rounded edges, and separated by a piece of metal. At one side of the bed is fastened an inclined bar, to which is pivoted a smoothing bar for flattening and smoothing the folds after they are drawn through the folders.

Claim.—First, combining with movable holders BB a series of blades or folders a a a, separated from each other the desired distance by the piece b b b for folding cloth into plaits,

substantially as set forth and specified.

Second, in combination with the folders a, separators b, and movable holder B, the ironing bur D, for flattening and smoothing the folds after they are passed through the folders, substantially as described and specified.

Third, the holders B B for locking up the folders a and separators b, constructed and operating substantially as set forth and specified.

No. 25, 368.—Samuel Ehrman, of Mount Joy, Pa.—Improvement in Shutter Fastenings.—Patent dated May 27, 1862.—This invention consists in inserting in a window or shutter frame a cusing, at the lower part of which is hinged a pawl in a pivot box. Upon the shutter is placed a guard plate having a projecting point upon which the pawl rests when the shutter is opened, by which means the shutter is effectually secured in an open position. A groove and slot are provided for the reception of the guard plate when the shutter is closed.

and sot are provided for the reception of the guard plate when the shutter is closed.

Claim.—The combination of the casing B B' with its pivot box C, groove F, and slot E, and hinged pawl A, together with the guard plate D, when these several parts are combined

and arranged substantially in the manuer and for the purpose specified.



No. 35,369.—A. H. FRENCH, of Pittsfield, Ill.—Improvement in Water Elevators.—Patent dated May 27, 1862.—This invention consists in the employment of a flat or square linked chain for keeping the buckets from turning as they are elevated, in connexion with buckets provided with valves opening inwards upon the bottom so that the water will readily enter as the buckets are lowered into it. At the lower edge of an opening in the curb are hinged two troughs which hang vertically when not in use. These troughs are provided with bails. which are caught in hooks upon the buckets as the latter are raised, which bring the troughs into an inclined position so as to receive and carry off the water, the latter being caused to escape at the same time by the opening of the valves in the bottom of the buckets.

Claim.—The flat or square linked chain E, the grooved pulley C, carrying stop pins bb buckets D D', with hinged valves in their bottoms, and hooks & A on their sides, and is hinged troughs G G', with their pivoted bails g g', all arranged and combined as and to

the purpose set forth.

No. 35,370.—WILLIAM FULTON, of Cranberry, N. J.—Improvement in Coal Oil Burners. Patent dated May 27, 1862.—This invention relates to an improvement upon a lamp patented to the said Fulton, August 3, 1858, and it consists in using, in connexion with the burner described in the said patent, one or more impinging plates formed so as to cause a quantity of cold air to come in contact with the wick tube, as it rises to the slot in the cone, for the purpose of keeping the wick tube cool and promoting capillary attraction, the top of the wick tube being concave to the corners so as to spread the flame. Around a slot in the upperpart of the cone is placed a gauze wire, and at the lower edges of the slot two or more holes are made for preventing the heat from passing down the cone, and also the flame from being extinguished as the lamp is carried around.

Claim.—First, the combination of gauze wire m, as shown in Fig. 7, with holes K, &

shown in Fig. 1 and Fig. 5, or their equivalents.

Second, the combination of holes K, as shown in Fig. 1 and Fig. 5, with the gauze wire or perforated plate L, as shown in Fig. 3, or their equivalents.

Third, the combination of the impinger D with holes K, shown in Fig. 1 and Fig. 5, and the gauze wire or perforated plate L, as shown in Fig. 3, the whole being arranged substantially as and for the purpose set forth.

No. 35,371.—C. P. Goss, of St. Johnsbury, Vt.—Improved Cultivator and Potato Diggra—Patent dated May 27, 1862.—The nature of this invention will be understood from the claim, its object being to dig into soil containing potatoes and raise it and them upward, and to break up the soil so as to separate the potatoes from it; the machine being also capable of being used as a cultivator for preparing ground for general farming purposes.

Claim.—The combination and arrangement of the single scoop and the rotary breaker, the

driving wheels, their shatt, and machinery for rotating the breaker, the whole being substan-

Also, the combination and arrangement of the scoop and rotary breaker with a separate frame A, and two bars N N extending from the axle of the driving wheels and arranged with respect to one another, and provided with elevating and depressing mechanism, as specified

Also, the combination of mechanism for simultaneously elevating and depressing the scoop and the breaker, and adjusting the point of the breaker relatively to the ground, the same consisting of the cranked lever S, the hand lever T, the crooked connexion bar U, the arm V and its slotted bar W, and set screw m, the whole being applied to the main frame A and the auxiliary bars N N of the machine and to the scoop shaft, substantially as and so as to operate as described.

Also, not only the application of the knife or cutter to the scoop in such manner that the angle of declination of the said knife may be varied relatively to the scoop, but the application of a supporting chain, or its equivalent, to the knife and the main frame of the machine and

to support the upper end of the knife, as set forth.

No. 35,372.—RALPH GROW, of Galesburg, Ill.—Improved Benzole Soup.—Patent dated May 27, 1802.—The nature of this invention is explained by the claim, the use of benzole being designed to remove grease spots, paint, &c., from cloth or the skin.

Claim.—The employment of benzole when used in the manufacture of soap, substantially

as specified.

No. 35,373.—G. O. GUERNSEY, of Cornwall, Vt.—Improvement in Watch Escapements Patent dated May 27, 1862.—This invention consists in the employment of two balance wheels, carried by the same driving power, but oscillating in opposite directions, for the purpose of counteracting the effect of any sudden jar upon the watch or time-piece. The jar or sudden shock which accelerates the motion of one wheel will consequently retard that of the other, so that the motion of the works will not be disturbed.

Claim.—The combination with a cylinder watch of the mechanism described for operating

two balance wheels which shall oscillate alike, but in opposite directions.



No. 35,374.—George Heath, of Little Falls, N. Y .-- Improvement in Wrought-iron Bridges.—Patent dated May 27, 1862.—The straining beams of the bridge are composed of wrought-iron plates, having vertical plates or webs secured centrally to their under sides by single irons. The braces are of V-shaped form, and are constructed similarly to the straining seams with which they are connected by rivets. The lower parts of each brace are connected by a horizontal plate, each of said parts terminating in a thimble through which, and the horizontal plates, the chords of the bridge pass. Extending from and below the straining means are rods, the lower ends of which terminate in eyes through which the chords also pass. The flooring timbers are supported upon needle beams, which consist of vertical metal plates laving an angle iron at their upper and lower edges, which form recesses or chambers at each side to receive the flooring timbers.

Claim.—First, the combination of the diagonal double or forked braces B, straining beams

A, vertical rods E, and chords C, substantially as and for the purpose set forth.

Second, constructing the straining beams A and braces B of wrought metal plates and

angle irons connected together by rivets, substantially as and for the purpose specified.

Third, securing the lower ends of the braces B and vertical rods E to the chords C by means of the thimbles j and lock nuts D; but this is only claimed when used with the pecu-

liar arrangement of the rods E, braces B, and straining beams A, as described.

Fourth, the needle beams F, constructed as shown, when used in combination with the

chords C and applied thereto, as set forth.

No. 35,375.—H. A. HOUGHTON, of Lyme, N. H.—Improved Clothes Dryer.—Patent dated May 27, 1862.—This invention consists in making the hub in the form of a prismatic block or box, having an arm socket arranged upon each of its vertical sides. Each socket is prorided with a buttress or brace-bearer to receive one of the arms, so arranged as to be capable of being turned upward vertically, and so as to occupy a small space. Each arm is provided with a metallic brace which, with its bearer, serves to maintain the arm in its lowest portion under the contractile strain of the lines, and to prevent the arms from being thrown upward y the action of the wind.

Ctaim. - The prismatic hub, as made, with its arm sockets on the same, and brace but-

resses, constructed and arranged substantially as specified.

Also, in combination with the hub so made, and with the arms applied to it as described, he series of braces applied to the arms respectively and substantially in manner and so as to perate as described.

No. 35,376.—CASPAR JAGY, of New York, N. Y.—Improvement in Locks.—Patent dated May 27, 1362.—A metallic plate, formed as shown in the engraving, is firmly secured transersely to the bolt near its centre for the purpose of balancing the weight and imparting an venness and ease of motion to the parts of the lock. Connected to the frame is one end of a ever, the other end fitting between two pins upon the side plate. When the key is inserted nd the spindle turned, the frame is moved upwards and the end of the lever, with its slide and tate, press upon the back of the key and adjust the wards by pressing down against them, o that after the key is inserted the bolts may be moved by simply turning the knob without eaching the key.

Claim.—First, connecting the plate C, to which side-bolts may be attached, to the main

olt between the spindle and the wards, as and for the purpose specified.
Second, adjusting the wards by means of the spindle through the instrumentality of the ever E. the slide F, and the key, substantially as set forth.

Third, the combination of the key with the wards and plate F, when arranged and con-

tructed in the manner and for the purpose set forth.

No. 35,377.—FREDERIC KETTLER, of Milwaukie, Wis.—Improved Heel for Boots and Sloes.—Patent dated May 27, 1862.—This invention consists of a metallic casing provided with touch on its upper side for the nurpose of fastening it to the boot or shoe. Within the with teach on its upper side for the purpose of fastening it to the boot or shoe. Within the case is a filling of gutta-percha forming the tread. In the lower part of the casing is an additional piece of sheet iron, so arranged as to form a space in which may be placed guttapercha or other suitable substance.

Claim. -A heel composed of an iron casing constructed with the teeth, as described, in

combination with a filling in whole, or only in the tread, with gutta-percha.

Also, the combination of the casing, constructed as described, with a covering up to the ine of the teeth of gutta-percha and a filling of the same or other material, in the manner lescribed, and the angle B in combination with the casing, constructed as described.

No. 35,378.-P. L. KREUTER, of Bloomington, Ill.-Improved Piston Packing.-Patent lated May 27, 1862.—This invention consists in the arrangement of spring valves and guides n combination with apertures in the piston head and follower, in such a manner that the spectures admitting the steam or other fluid from the cylinder into the piston are simultaleously closed on reversing the piston, so that the steam or other fluid can effectually be improved to produce a tight packing. On the inside of the ordinary main packing rings of he cylinder is also arranged an additional packing ring provided with a toothed expansion

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rack and with a spring plate, in such a manner that by the action of the steam or other full the inner packing ring is expanded, and the crevice between the outer or inner packing may is effectually closed, and by means of the spring plate, the steam or other fluid is prevened from finding its way in between the inner and outer rings.

Claim.—First, the arrangement of the spring valves g(g') and guides e in combination will the apertures f(g') in the piston head and follower, as and for the purpose shown and described Second, the arrangement of the protecting plate j in combination with the packing range

F and E, as and for the purpose set forth.

Third, the toothed rack h and tooth i on the ends of the packing ring F, as and for the purpose specified.

No. 35,379.—G. B. MALLETTE, of Milford, N. Y.—Improved Washing Machine.—Pset dated May 27, 1862.—This invention consists in the combination of a suction pump with tub or vat to receive the suds and clothes provided with a rack or other means of supports; the clothes, so as to leave a chamber at the bottom of the tub with which the pump comma nicates by means of a pipe or pipes, through which latter the suds or water is forced by action of the pump, and poured again upon the clothing from the spout of the pump the keeping up a continuous circuit through the clothes until they are sufficiently cleaned Above the clothes is arranged a rack and screw for the purpose of expressing the war retained by the clothes after the vat has been emptied, the drying being completed by rate [7:2] and exhausting the air by means of the operation of the pump, causing currents of air was passed through the fabrics cleansed.

Claim.—The combination of the exhaust or suction pump B with a suitable box or val. and loose rack E, or its equivalent, for washing the clothes without pressure, arranged and

operating substantially as set forth.

Also, the combination of the exhaust pump B with the pressure rack J, or its equivalent operating in the box A for drying the clothes under pressure, the same device answering is both purposes when the press J is applied and the pump made to discharge its water out is of the box, substantially as shown and described.

No. 35,380.—EDWARD R. McCabe, of Rochester, Iowa.—Improvement in Breech-loading Ordinance.—Patent dated May 27, 1862.—This invention consists in fitting the chamber of a breech-loading cannon with a tube of steel or other tenacious metal termed an internal relations. force, the interior of which is much smaller than the calibre of the gun, and the length of which is sufficient to enable it to contain the charge, the object of the tube being but a strengthen the gun and to reduce the amount of the area of the breech that is exposed to the force of the explosion. The breech is composed of two strong plates or blocks, arrange! behind the other, and connected by screws in such a manner as to permit a slight move is toward and from each other. To each side of the gun near the rear is secured by a time joint, one of two dovetail cheek pieces, having each three dovetails, by means of which the breech is securely locked and tightened up. Within a socket is the priming fitted to with easily back and forth, and the priming tube is provided with a plunger, by means of with the priming is exploded. The cannon is designed for the use of gun-cotton in discharges. Claim.—First, fitting the chamber of a breech-loading gun with a removable tube B wiles

character described, and termed an internal reinforce, for the purpose specified.

Second, the breech composed of two plates or blocks C D, combined with each other and

with the gun by means of the dovetail cheek piece F F and screw G, applied and operating substantially as and for the purpose specified.

Third, the priming tube H and plunger I applied in combination with each other and will the breech, substantially as specified.

No. 35,381.—A. McGuffie, of Rochester, N. Y.—Improvement in Truss Bridges.—Part dated May 27, 1862.—This invention will be understood by reference to the claim and engraving.

Claim. - The truss composed of the arch sections B, with their shoes I I to rest on the att. ments or piers, the chords A A and F F, posts C C, and angle braces D D, the whole arrange

and combined substantially as and for the purpose specified.

No. 35,382.—R. M. MERRILL, of Chicago, Ill.—Improved Lanters Lamp.—Patent design May 27, 1862.—This invention consists in the application of one or more air passages to 🕒 lantern lamp in such a manner as to allow air to enter at the bottom of the lamp and care close to and below the flame. The upper end of the tube is covered with a conical and gauze cap to check the current of air through the tube when the lantern is suddenly lower-the object being to prevent the flame from being extinguished by a sudden movement of the lantern.

Claim.—The application of one or more air passages through a lantern lamp and its box.cs.

substantially as described and for the purpose specified.

Also, the application of one or more air passages through a lantern lamp and its bot 22 substantially as described and for the purpose specified, in combination with an air current checker, for the purpose set forth.

No. 35,383.—O. F. MORRILL, of Chelsea, Mass.—Improvement in Apparatus for Vaporizing and Burning Liquid Hydrocarbons.—Patent dated May 27, 1862.—This invention is explained by the claim and engraving. The apparatus is designed to obviate the difficulty experienced in similar devices in which wick or heat conductors are used.

Claim.—An zero-vapor burner as constructed, with the fluid vaporizing conduit arranged to extend across or over the same and through the chimney, and from thence to pass down

alongside of and enter the air and vapor-mixing chamber, substantially as described.

Also, the combination of the reservoir and its conduit, provided with a regulating or stopcock, as described, with the zero-vapor burning in such manner that the fluid to be vaporized shall be caused by the action of gravity to pass through the stopcock and the vaporizing tube and across or over the foraminous cap of the burner, in order that the fluid may be heated or vaporized by the flame of the mixed air and vapor applied directly to the conduit, as set forth.

No. 35.384.—J. A. Mowis, of Neversink, N. Y.—Improvement in Wagors.—Patent dated May 27, 1862.—This invention consists in attaching to the under side of a wagon body, curved supports which are attached at their centres to slats or bars of wood or steel extending from the front to the rear axles, the slats acting as springs to the body of the wagon.

Claim.—This substitute for the common elliptic spring buggy, a body the outline of whose ball is the arc of a circle confined upon horizontal longitudinal spring bars, as set forth.

No. 35,385.-L. N. MUIR and A. J. KLINE, of Jersey Shore, Pa.-Improved Washing Ma. chias.—Patent dated May 27, 1862.—This invention consists in the employment of a double crakel iron shaft passing transversely through double-slotted arms suspended from a head or cross-piece fitted loosely so as to move up and down in slotted stationary uprights secured upon the outside of the box and which supports the shaft, the cranks on the shaft imparting an easy and rapid rocking motion to the washing board which is joined to the slotted arms. The pressure of the washing board is regulated by means of a spring lever hinged to one end of the box underneath, and operated by a handle at the other end, the lever being attached

near its centre to bars connecting with the head or cross-piece in the slotted uprights.

Claim.—The arrangement and combination of the double-cranked shalt D, double-slotted arms C, double-sliding bars F, double-slotted uprights E, head or cross-piece H, and spring lever G, the whole constructed and operated in the manner described and set forth.

No. 35,386.—HIRAM NASH, of Lockport, N. Y.—Improvement in Water Elevators.—Patent dated May 27, 1862.—This invention consists in the employment of a windlass having an enlarged central portion, on each side of which are portions of smaller diameter for receiving the opposite ends of a cord or chain. In the enlarged portion is a hole through which passes a rope laving secured to it a cross-bar to which the bucket is connected by means of bail rolls, for the purpose of throwing the bucket outward when the contents are to be discharged. The water escapes from the bottom of the bucket through a valve which is actuated at the proper time by means of an arm attached to the cross-bar and operating a connecting rod which is jointed to the valve.

Claim.—First, the windlass, having an enlarged central portion H, or its equivalent, with smaller portions K K on each side thereof for the ends of the cord or chain to wind on, when the same is used in connexion with a cord or chain L, extending through and adjustable in and central portion, and a cross-bar M, to which the ends of the cord or chain are attached, the whole arranged, combined, and operating substantially as described.

Second, in combination with the enlarged central portion H of the windlass, or its equivalent the cross-bar M and bucket N, whereby the latter is thrown outward when raised to

discharge its water, substantially as set torth.

Third, in combination with the enlarged portion H of the windlass, or its equivalent, the cross-bar M, provided with an arm Q, the connecting rod R and valve P, whereby the and valve is opened at the proper time to discharge the water from the bucket, substantially s pectied.

Fourth, providing the upper end of the connecting rod B, connecting the valve P with the am Q. in an elongated loop k passing over a bearing h in the end of the arm, whereby not only is the valve raised at the proper time in discharging the water, but also when the bucket a lowered in the well the valve is allowed to open freely to admit the ingress of the water, the whole arranged and operating substantially in the manner and for the purpose specified.

No. 35,337.—SAMUEL NOWLAN, of New York, N. Y .-- Improvement in Rice Cleaning, Hull-124 and Pearling Machine. -Patent dated May 27, 1862. -Below the hopper is arranged a series of wire beds inclined in opposite directions to each other, so that the rice will fall from one to the other. Above each wire bed is placed a frame containing a number of stone slabs or plates of chilled cast-iron, the chilled surfaces being opposite to the wire surfaces, between which two surfaces the rice is made to pass. The frames containing the slabs or plates are connected by means of rods, and a reciprocating motion is imparted to them. After being hulled the rice is conducted to a stationary conical screen or pearling box, through the centre of which passes a shaft provided with a number of dashers or biades to which a reciprocating motion is given, by means of which the rice is freed from its inner cuticle. Digitized by GOOGLE Claim.—First, the combination with stationary and elastic wire beds of the reciprocating cast-iron plates or stone slabs, substantially in the manner and for the purpose described.

Second, the combination with a stationary conical screen, constructed as described, of a revolving shaft and inclined dashers or blades, the whole operating together substantially as set forth.

No. 35,388.—F. B. PIERCE, of Brockport, Ill.—Improvement in Pumps.—Patent dated May 27, 1862.—The pistons are each provided with three packing pieces of brass or other set metal, viz., a face piece and two end pieces, all of which are fitted into deep grooves interpiston. The inner edges of the end pieces are inclined to correspond with the edges of the face pieces, which are also inclined, thus acting as a wedge, so that the face piece may be readily adjusted and the wear compensated for, the adjustment being effected by means of set screws passing through the face plate and bearing against the bottom of the groove in the piston body. In the side of the piston slot is fitted a packing consisting of a strip of brase or other soft metal with a flange on one side or on both sides, or without flanges on its side, its back being grooved for the reception of a wedge piece. The grooves are inclined to correspond with the face of the wedge piece, which latter is moved longitudinally by means of a screw passing through a tapped hole in one end of the piston drum.

Claim.—First, the construction of the piston packing pieces J and K K, with oblique surfaces i i and h h, fitting together substantially as described, whereby the piece J in being set out is caused to act like a wedge upon K K and set them out also, as set forth.

Second, in combination with the foregoing the tenons e e, constructed and arranged sub-

stantially as and for the purpose specified.

Third, the setting out of the pieces J by means of set screws jj, applied and operating

in the manner specified.

Fourth, the combination of the abutment and piston slot packing pieces H and N, or either of them, with the wedge pieces R P and screws *p, applied and operating substantially as and for the purpose specified.

Fifth, the packing pieces H and N, with flanges str, substantially as and for the purpose

set forth.

No. 35,289.—G. P. REED, of Roxbury, Mass.—Improvement in Watch Escapements.—Patent dated May 27, 1862.—This invention consists in the combination of a circular segment detent and a detaining and impulse pallet with a vibrating lever, and either two-toothed wheels or one wheel having two sets of teeth, the whole being applied to the balance, so as to operate together and with such balance.

Claim.—The arrangement and combination of the segmental detent f, and a detaining and impulse pallet e, with the vibratory lever B, and a scape wheel A, constructed as described, the whole being applied to the balance by means and so as to operate therewith and together.

substantially as explained.

No. 35,390.—John Richards, of Columbus, Ohio.—Improvement in Guide and Support for Scroll Saues.—Patent dated May 27, 1862.—Instead of using a sash, the lower end of the saw is fastened to the upper end of a stock or slide of the pitman by a set screw, its upper portion being disconnected above the table, but supported and guided by means of two parallel bars and an angular plate. The bars have a lateral adjustment to accommodate saws of different thicknesses, and they are designed to keep the saw in a true vertical line while the back plate supports the saw against the strain of the stuff on the teeth. The bars and plate are fastened to the lower end of a sliding strip or guard piece fitted in a groove of a suspended stud of the building.

Claim.—The guide bars a a, and the back plate b, in connexion with the sliding guard strip A, the same constituting a combined guide, guard, and support for the top of a scroll saw, and

operating substantially as described.

No. 35,391.—JOHN RICHARDS, of Columbus, Ohio.—Improved Scroll Saw Stocks.—Patent dated May 27, 1862.—This invention consists of a tubular guiding stock which admits the upper end of the pitman into it and allows the pitman to deflect or bend within its lower portion, the said stock constituting a part of the length of the pitman without interfering with its flexibility or rendering the length too great, and also serving as a firm lower support and guide to the saw blade. The saw blade is fastened into the socket-head of the stock by means of a split collapsible pin and set screw, so that the blade may be set to any desired angle of turned in any position for adjustment. The pitman is fastened within the stock and to a socketed head-piece by means of a nut and bolt.

Claim.—First, a guiding stock and pitman, combined and operating substantially in the

manner and for the purpose described

Second, the combination of a split pin and set screw, or its equivalent, with a scroll saw blade and the upper end of a pitman, substantially as and for the purpose described.

Third, the combination of the socketed head-piece, pitman, screw bolt and nut, substantially as and for the purpose described.

o. 35,392.—JOHN RICHARDS, of Columbus, Ohio.—Improvement in Scroll Saw Mills.ent dated May 27, 1862.—This invention consists in the combination of a solid supporting cture, tubular saw stock and pitman, and a guard with supporting and guide plates, for purpose of obviating the difficulties caused by the trembling and vibration produced by rapid speed with which the saw is necessarily driven.

taim. - First, the tubular saw stock E and floxible pitman D, in combination with the

rd, support, and guide J $n \circ p$, substantially as and for the purpose described. second, the tubular saw stock E and flexible pitman D, in combination with the guard, sup-, and guide J n o p, arranged with a single solid structure A, and operating in the manand for the purpose set forth.

o. 35,393.—M. T. RIDOUT, of Milwaukie, Wis.—Improvement in Butter Moulds.—Patent d May 27, 1862.—This device is constructed of a block of wood, in the bottom of which circular cavity within which works a piston. Passing through the centre of the piston is a horizontal metallic cross-rod, the ends of which play freely in slots in the uprights.

on the outer face of one of the uprights are a series of jointed holders arranged at proper inrals, and, in connexion with pins on the other side of the same, serve to arrest the upward mo-1 of the piston so as to leave space in the cavity for certain definite, ascertained weights of ter. Upon the lower edge of the cavity are fitted three curved knife-blades so connected h handles that by turning the latter, the blades will cut off the butter smoothly and even h the surface of the mould.

laim.—The use of a piston and piston rod in connexion with the cavity of a butter mould my desired size or shape, when the said piston is arrested in its movement at determined

avals, substantially in the manner and for the purpose set forth.

ilso, when a piston and piston rod are combined with a butter mould, as set forth, the ibination therewith of one or more knife-blades moving horizontally over the bottom of the ity in said mould, substantially in the manner and for the purpose set forth.

o. 35,394.—ELISHA ROBBINS, of Milford, Mass.—Improvement in Looms.—Patent dated 7 27, 1862.—The object of this invention is to provide a means of arresting the shuttle at ear the termination of its course, and under any sudden increase of speed of the loom, so o prevent the cop in the shuttle from being thrown off the spindle, which is effected by bining with the binder, and so as to extend beyond its outer end or into shuttle box, a stopg spring jaw curved as shown in the engraving. To the opposite side of the shuttle box fixed an auxiliary spring jaw. Upon the top of the shuttle box are arranged two adjustantly parallel guides or straight bars, each being provided with transverse slots and set we, in order that the bars may be adjusted so as to have their edges parallel, and either in ge of the race beam or at such an obtuse angle therewith as will cause the picker to direct shuttle to properly run across the beam while the shuttle may be in the act of being exed from the shuttle box. The picker staff near its lower end is made to rest in a forked us arm extended from a socket piece which projects from the lay sword. A string conted at one end to the sword, and at the other to a strap fastened to the lower part of the ter staff, serves to maintain the staff in connexion with the radius arm, and the latter in nexion with its socket piece.

laim.—The application and arrangement of the spring stop jaw c with the binder, and s to extend into the shuttle box, and operate with the picker or its staff, substantially as

lso, the combination and arrangement of the auxiliary spring jaw d with the spring jaw then arranged with and extended from the binder, as specified

iso, the combination and arrangement of the adjustable guides e, with the shuttle box, picker and its staff, as explained, when the said picker is made substantially as described. dee, the combination and arrangement of the forked radius arm F, the socket piece G, and spring H, as applied to the picker staff and lay, and so as to operate therewith, substanly as specified.

vo. 35,395.—ELISHA ROBBINS, of Hopedale, Mass.—Improvement in Picker Staff forms.—Patent dated May 27, 1862.—Projecting from the lower part of the sword of the is a curved arm or supporter, upon each side of which, near the end, is affixed an ear or amed bearer, which constitutes a shoulder or abutment for the lower part of the picker I, to maintain its foot in the proper place on the supporter during the throw of a shuttle. ong metallic foot rests upon the top of the supporter, and is provided with curved ulders or caps projecting upwards from it, so as to prevent the foot from slipping off the porter during the retraction of the picker staff.

tuim.—The arrangement of the cammed bearers a a, their shoulders or caps b b, and the ker staff with the foot D and supporting arm C, as described.

10. 35,396 .- II. A. ROE, of Madison, Ohio. - Improvement in Valves to Heaters for Cheese ts.—Patent dated May 27, 1862.—The nature of this invention will be understood from claim, the object being to dispense with the use of a stuffing box and other parts diffit for a farmer to keep in order, and to insure a simple arrangement of the valve apparatus. Claim.—First, constructing and operating valves in the heaters to cheese vats with the valve lever below the valve bar, and within the heater, one end of said lever being connected to the valve bar, and the other with a rod working through an open tube, substantially as and for the purpose specified.

Second, operating the valves in heaters to cheese vats with a valve rod working through

an open tube on the heater, as and for the purpose specified.

Third, making the tube, for the escape of steam, separate from and fastening it to the heater with a yoke and bolt, for the purpose specified.

No 35,397.—M. and S. SHAWVER, of Bellefontaine, Ohio.—Improvement in Harvesters.—Patent dated May 27, 1862.—This invention consists of an arrangement of parts, by means of which the raking device may be readily operated by the driver or attendant, and also be capable of being readily adjusted, so that the sickle, which is attached as usual to the platform, may be made to cut higher or lower, as desired.

Claim.—First the drum L, provided with a spiral spring L', and connected to the bar H, which is provided with a spring stop and rack I, in connexion with the adjustable shall 0, provided with the pinion N, and operated as shown, and the treadles R S, arranged for actuating, respectively, the shall 0 and spring stop a, substantially as and for the purpose

set forth.

Second, the manner of securing the bar E to the main frame A, as shown and described, to wit, by means of the pivot d, slotted plate F, and set screw s, whereby the platform, and consequently the sickle, may be readily adjusted higher or lower, as described.

No. 35,398.—D. H. SHEARER, of West Grove, and CYRUS HAYNES, of Centerville, Iowa.—Improved Washing Machine.—Patent dated May 27, 1862.—This invention consists in the employment of two concave washboards and a convex rubber, composed of inclined slats, with intervening apertures, so that dirt may pass through as it is rubbed from the clothes. Between the washboards, at their lower ends, are three rollers, under which is a dirt chamber for the reception of the dirty suds.

Claim.—The combination and arrangement of the inclined slats a a on the concave washboards G G and rubber C, with intervening apertures, rollers H H, and dirt chamber K

substantially as and for the purpose specified.

No. 35,399.—H. A. SMEAD and C. H. HUNTLY, of Pavilion, N. Y.—Improvement in Car Complings.—Patent dated May 27, 1862.—The bumper bar is composed of a top and bottom plate and two jaws, one of which is firmly bolted to the top and bottom plates, while the other is pivoted to the said plates, and forms one side of the bumper bar. The bumper head is made removable, and slides over the end of the coupling bar. Between the morable and stationary bars is a chamber, in which are placed a sliding spring block, made concave in front to receive a disk. From this disk is cut a segment, into which fits the counterpart of the head of the shackle bar, so arranged that when a car runs off the track the shackle bar is at once released, and the cars consequently uncoupled. An arrangement of devices is also employed for effecting the uncoupling and automatic coupling of the bar.

Claim.—A removable bumper head or buffer C, when made entire, and which is removed and replaced by sliding it on or off the end of the coupling bar in a horizontal direction.

substantially as described.

Second, the imperfect disk G, which is made perfect by the insertion of a shackle bar formed with a solid double convex head, in combination with jaws having concave parts have forming circles concentric with that of the disk G, as and for the purpose set forth.

Third, the combination of the disk G and solid double convex-headed shackle bar with the

sliding spring block F, as described.

Fourth, the means described for coupling and uncoupling the shackle bar, consisting of the spring stop R, and foot S, projection T, lever N, pin M, and curved sliding bar L, as specified.

*No. 35,400.—C. G. SMITH, of Mount Vernon, N. Y.—Improved Composition for Water-proofing Cloth, Leather, &c.—Patent dated May 27, 1862.—The nature of this invention is explained by the claim.

explained by the claim.

Claim.—The described composition, consisting of linseed oil, white wax, spermaceil, litharge, and burgundy pitch, mixed together in the manner and about in the proportion

specified.

No. 35,401.—L A. SPRAGUE, of Brooklyn, N. Y.—Improvement in Buckles.—Patent dated May 27, 1862.—This invention consists in the employment of a lever, which is fitted loosely on the axis of the buckle frame, and is constructed of a plate or strip of metal doubled of bent, one part over the other, and enclosing the axis of the frame, the end of the strap being between the folded parts and secured by rivets. The free end of the strap is firmly pinched between the front end of the frame and lever.

Claim.—Constructing the lever of a strip or plate of metal folded back upon itself, or doubled and enclosing the axis of the frame upon which the lever turns or works, as set

forth.

No. 35,402.—G. W. THOMPSON, of New York, N. Y.—Improvement in Self-regulating Gas rmers.—Patent dated May 27, 1862.—This invention consists in constructing automatic rulators with an air-chamber communicating with the outside air over the elastic diaphragm, so as to lessen the diameter of the diaphragm and effect an equable flow of gas ider all variations of pressure from the main pipe.

Claim.—The air-chamber 1 and entrance 2, in combination with an elastic diaphragm erating a conical valve, the whole being constructed and operating substantially as set

rth, and for the purpose of regulating the flow of gas at the burner.

No. 35,403 .- Benjamin Tobias, of Washington, Ill .- Improvement in Ditching Machines .stent dated May 27, 1862.—Secured to the main beam by means of the standard and brace a shoe, from the centre of which rises a central inclined cutter. The sides of the ditch are med by two inclined flaring cutters, the lower ends of which are secured to the shoe, and supper ends to a cross-bar upon the beam. The dirt is thrown off by means of inclined

ane and deflecting plates, so as to be piled up on each side of the ditch.

Claum.—The combination of the deflecting plates L and bar C with the inclines J, cutters HH, standard D, and shoe F, when the said parts are arranged and operate together, as

bown and described.

No. 35,404.—A. C. VAUGHAN, of Bedford, Pa.—Improvement in Revolving Fire-arms. stent dated May 27, 1862.—This invention consists of a double-barrelled fire-arm having to hammers actuated in succession by a single trigger, and a revolving breech with two meentric series of chambers.

Claim.—First, a revolving breech E having two concentric circles of chambers provided, specively, with axial nipples F' and oblique nipples F2, for the objects stated.

Second, a double barrel and a revolving breech having two concentric series of chambers,

combination with two hammers actuated in succession by a single trigger, and one of em employed to discharge an outer and the other an inner chamber, substantially as set

No. 35,405.—S. M. Washburn, of Poughkeepsie, N. Y.—Improvement in Water Ele-ters.—Patent dated May 27, 1862.—The crank socket through which the shaft passes is wided with two bevelled notches cut opposite each other in the inner edge. The brake bee D has two arms or shafts placed in grooves in the main shaft under a ratchet wheel and with the ends extending to the bevel notches of the crank socket, so that, as the latter tuned to the right, the bevel notches wedge against the bevel ends of the arms of the brake beel, pressing the brake wheel against the drum which winds up the chain or rope. On ressing the motion of the crank the rope may be unwound fast or slowly at the will of e operator.

Claim.—The combination and arrangement of the crank socket C with the brake wheel for the purpose substantially as specified.

No. 35, 406. -J. M. WHITING, of Providence, R. I.—Improvement in Machines for Thread-Flood Screws.—Putent dated May 27, 1862.—This invention consists in the employment a face plate having a series of study fixed in its face at equal distances from each other and Im its centre, for the purpose of carrying the tool or cutter from the head towards the point the screw blank to make the repeated cuts in forming the thread. The several stude of the Ties are made alternately larger and smaller in diameter with respect to each other, in the derin which they are placed, so that the cutter will be alternately advanced and delayed, in thereby made to cut first upon one side of the thread and then upon the other. In congion with the above is a series of adjustable cams projecting from the periphery of a rotating isk equal in number to the stude upon the face plate, and acting, through the medium of a ding former, to press the point of the tool or cutter against the blank to be threaded simulnecusly with the action of the studs in carrying the tool forward to make the successive us in forming the thread. A vertically sliding carrier is also employed, which is made to seed in the midst of a quantity of blanks contained in a dish or hopper whose bottom has central inclination by repeated strokes or motions, and in so doing to lift one or more blanks on the mass and deposit the same between the prongs of a fork suspended by the head, from high they descend by an inclined railway to a horizontal position near the mouth of the Then to which they are fed by any well-known means.

Claim.—First, the face plate F and the series of stude h h i i in combination with the degr of its equivalent, upon the tool post, arranged and operating substantially as described

16 purpose specified.

Second, a series of studs which are alternately larger h h and smaller i i in diameter, in the ther in which they are arranged, substantially as described for the purpose specified.

Third, the combination and arrangement of the cams t t, &c., the study h t, &c., and the prings g and g, for the purpose of effecting a connexion and a disconnexion at the proper me between the threading tool holder and the device which reciprocates the same, substana..y as described.

Fourth, the sliding carrier N arranged with the hopper M, in combination with the hinged Tongs s s upon the railway, and operating substantially as described for the purpose specified Q

No. 35, 407 .- J. F. WINSLOW, of Troy, N. Y. - Improved Armor Plates for Vessels. - Pater dated May 27, 1862.—This invention consists in constructing the plates with rebates, projections, and corresponding indentations in such a manner as to enable them to be seen ? fastened to each other and to the sides of the vessel without exposing the heads of the fastency bolts upon the outside surface of the armor.

Claim.—The combination of one or more series of armor plates with rebates, project. & and corresponding indentations, constructed and applied substantially as described.

Also, the recess m for the bolt heads g, in combination with the flange a of the armor is A riveted over and upon the plank C of the next adjoining armor plate A, substant a.

No. 35, 408.—A. J. Ambler, of Milwaukie, Wis., assignor to Himself, R. N. Ambler, a WARRICK MARTIN, of the same place.—Improvement in Railroad Car Brakes.—Patent div-May 27, 1862.—This invention consists in the employment of two friction wheels in connexe: with the driving wheels of a locomotive, and a shaft provided with universal joints so arranged with levers and connecting rods as to be under the control of and operated by the enginerand be also capable of being operated from the cars by brakemen—the cars of an entertrain being capable of being all operated simultaneously by the engineer, or any one of the separately by the brakemen. By means of an index, which is caused to traverse over properly graduated dial plate, the precise position of the brakes at any point of their more ment may be indicated, so as to serve as a guide to the engineer in adjusting and operating the same.

Claim.—First, the burr or friction wheels F G, arranged in relation with each other, at: the driving wheel C of the locomotive, as shown, and the shaft E"K, provided with universal joints be, and connected by the band I, or gearing in combination with the screw L on shaft K, and the lever or treadle N connected with the shafts K and O, all arranged to operate with the tumbling rod S, substantially as and for the purpose set forth.

Second, the indicator formed of the index b' traversing over a properly graduated dial plant a' and operated from the tumbling rod S, as shown, or in any equivalent way, to indicate the

position or state of the brakes, as described.

Third, the combination and arrangement of the levers C' J' O', chains H' K', and rolls I N', as shown, for transmitting the power to the brake bars L' L' P' R'.

Fourth, the adjustable shaft S', provided with the screw T', arranged with the segment. slide U' or its equivalent, and connected with the shaft r' of the hand wheel Y, in combination with the worm wheel q' on the tumbling rod V, and the shaft D' provided with the were wheel h' and connected with the lever C', as shown, substantially as and for the purpose st

No. 35,409.—F. W. Armstrong, of New York, N. Y, assignor to Himself, S. G. Milli-GAN, and J. S. GREEN, jr., of Elizabeth, N. J.—Improven Composition for Journal Boxes.—Patent dated May 27, 1862.—This invention is explained v the claim.

Claim.—The wool flock concentrated solution of alum, um, or mucilage, and plaster of Paris, or the equivalent substances named, when combined substantially in the proportion and for the purpose specified.

No. 35,410.—Alfred Bridges, of Newton, Mass, assignor to Himself and Albert Bridges, of New York, N. Y.—Improvement in Car Trucks.—Patent dated May 27,1502— This invention consists in applying to the swinging bolster beam, springs so arranged that whilst they permit the necessary swing of the beam laterally in the truck, they will release the concussion given to the car body by suddenly arresting the movement of the truck and the rails, as when the brakes are applied or any obstruction met with on the track

Claim.—The application of springs H, or their equivalents, on each side of the bolst:

beam C, substantially in the manner and for the purpose specified.

No. 35,411.—C. S. BULKLEY, of New York, N. Y., assignor to Himself and J. C. BOYD. of the same place. - Improvement in Apparatus for Compressing Musket Balls .- Patent dail May 27, 1862.—Upon a shaft mounted in a suitable framing is placed a stout crank and a cam. Directly below the crank and on the centre of a casing is mounted a stout keep Within the said casing are dies fixed in slides which are free to move longitudinally then: and are united by means of knuckle joints and toggles, the outer ends of which are united to similar joints to the ends of the aforesaid lever, so that a rocking or tilting motion sa open and close the dies which are mounted respectively with the toggles. The pollets to a. the material for the bullets are dropped singly from a tube into a cavity at the proper towhere they are retained until the right moment, when they are dropped through a hole in the top of the casing, and compressed by the action of the punch into the dies within, the operation being effected by means of two levers operated in one direction by the motion of the pun. and in the other by a spring or springs, thus causing the release of a single pellet at call descent of the punch sufficiently early to allow it ample time to descend, when it is checked until the right movement for its entrance into the dies.



Claim.—First, the employment in a bullet compressing machine of the lever B and cam a with the teggles M N arranged relatively thereto, substantially as described and shown for the purpose set forth.

Second, releasing a single pellet at each descent of the compressing punch in a bullet compressing machine by means of the check J, or its equivalent, operating substanially in the

manner set forth.

No. 35,412.—M. L. CALLENDER, of New York, N. Y., and N. W. NORTHRUP, of Greene, N.Y., assignors to Themselves, and C. H. Welling, of New York, N. Y.—Improved Defensive Armor for Ships.—Patent dated May 27, 1862.—This invention consists in the construction of lates of iron provided with broad flanges or ribs for the purpose of strengthening them, and with a drop flange or lap at one edge for receiving a plate with corresponding edges to which it is to a riveted. Concave plates and tubes are also used in forming the shield or plating.

Claim.—First, the use of long metallic plates of defensive armor ribbed, as described, in combination with the circular stringers, by which they are attached substantially as and

for the purpose described.

Second, the manufacture and use of tubes placed between the surfaces of concave plates of stringers of iron, together with, and the mode of fastening them for mailing vessels, and

other military purposes, as described.

Third, the combination of the flange and rib plates, the concave plates and connecting uses, with the intermediate plate and springs, to make a shot or shell-preof mailing for war hips, and other military purposes, substantially as described.

Fourth, the use of metallic tubes for mailing war vessels, when constructed and applied sub-

stantially as described.

No. 35,413.—Wesley Sawyer, of Lowell, Mass.—Improvement in Fire Escapes.—Patent lated May 27, 1862.—This invention consists in the arrangement of one or more struts with series of telescopic tubes, combined with a truck and swivel platform, cars or baskets, and series of windlasses, in such a manner that the tubes can be extended upwards and elevate he platform to any desired part of the building. Two baskets or cars are also so arranged with each other and with a revolving fan, that the velocity of the descending basket is checked by the action of the fan, one basket rising while the other descends.

Claim.—The combination and arrangement of one or more struts or tormentors $e^{\pi i h}$ a series of tubes C C' C", supported by pivots c, and made to extend in the manner of telescope, and combined with the truck A, swivel platform H, and rising and falling

miles I, constructed and operating substantially as and for the purpose set forth.

Also the combination of the rising and falling baskets I, chain s, and revolving fan constructed and operating in the manner and for the purpose described.

No. 35,414.—JOHN CAREY, of Brooklyn, N. Y., assignor to S. A. SMITH, of Smithtown, i. Y.—Improvement in Metallic Bedsteads.—Patent dated May 27, 1862.—This invention

explained by the claim and engraving.

Claim.—As an improved article of manufacture, a metallic bedstead having its posts A, ormed of sheet metal, bent in tubular form, and its end rails B, formed of wrought-iron angle slates, the two posts and end rail at each end of the bedstead being connected by castings shrunk or cast on them, as described, and the castings provided with dovetail grooves to eave the tenons of the cast metal side rails D, which are formed of two parts connected by lareial joints with castings E, which are shrunk or cast on tubular sheet metal legs F, substantially as set forth.

Also, in combination with the parts constructed as above described, the longitudinal extention rods G G, attached to the wrought metal end pieces B B, and provided with screw joints

4 as and for the purpose specified.

No. 35,415.—W. Coggeshall, of Finley, Ohio, assignor to Himself and W. T. Coggeshall, of the same place.—Improvement in Ploughs.—Patent dated May 27, 1862.—To the funl part of the land side which extends upward in a curved form above the mould board, is pivoted a rod having its forward end bent downward and forked so as to fit over the upper edge of the beam. The rearend of the beam is curved and attached at is lower end to the lower part of the land side. Near the forward end of the beam is a series of holes, into one of which the forked end of the above-named rod may be bolted so that the lines of the draught may be varied as desired, to regulate the depth of furrow.

Claim.—The combination of the adjustable rod E and adjustable beam F, arranged and ap-

plied to the plough as and for the purpose set forth.

No. 35,416.—H. K. GARDNER, of York, Pa., assignor to Himself and A. J. GLOSSBREN-FER, of the same place.—Improvement in Pneumatic Telegraphs.—Patent dated May 27, 1862.—This invention consists in operating a recording instrument at one end of a line by means of a current of compressed air passing through a tubo and controlled by a transmitting

instrument at the other end of the line. In connexion with the two rollers which give motion to the paper upon which the message is recorded, is used a pen secured in a bracket projecting from the frame, the pen sliding freely endwise in its bearings, in order that its point may touch the paper when required. The pen is actuated by a plunger, which also plays freely endwise in its bearings in a cylinder, and is actuated by the direct impulse of a current state. of air passing through the tube which connects the transmitting with the recording instru-ments. An aperture in the cylinder near its lower part permits the air to escape and cause the plunger to drop the moment the current ceases.

Claim.—The combination of a recording instrument, operated by means of a current of conpressed air, with a transmitting instrument which controls said current, for the purposed

transmitting intelligence, substantially in the manner described.

Also, the combination of the pen c and plunger E, substantially in the manner described

for the purpose set forth.

Also, making an aperture f in the cylinder F, for the purpose of securing celetity and ontainty in the action of the plunger E, substantially as described.

No. 35,417.—Louis Harper, of Brooklyn, N, Y., assignor to W. T. Glidden, of Brookline, Mass.—Improvement in Fertilizers.—Patent dated May 27, 1862.—The object of this in vention is to resuscitate and restore guanos which have been deprived in a measure of their fertilizing qualities, to their original quality and effectiveness, which is accomplished by to impregnating them with such ammoniacal and alkaline salts as are a material aid to the growth of the herbaceous part of the plants, and rendering a part of the basic phosphates soluble by converting them by one and the same process into bi-phosphates or super-phosphates. Claim.—The restoration of phosphated guano, in the manner and by the means substantially as described.

No. 35,418.—John Haskins, of Roxbury, Mass., assignor to S. P. Blake, of Boston, Mass.—Improvement in Gun-Nipple Protector.—Patent dated May 27, 1862.—This invention consists in constructing a gun-nipple protector of India-rubber, or any of its compounds, for the purpose of effectually excluding dampness from the nipple, and preventing it from being broken or bruised by the snapping of the hammer.

Claim. - A gun-nipple protector constructed of India-rubber, or any of its compounds, sub-

stantially as described and for the objects specified.

No. 35,419.—C. W. HOPKINS, of Norwich, Conn., assignor to Himself, T. K. Bacov, and A. E. Cobb, of the same place.—Improvement in Revolving Fire-arms.—Patent dated May 27, 1862.—The object of this invention is to facilitate the loading of the several chambers with out the necessity of taking out the cylinder or removing the frame. Arranged within the frame of the cylinder and fitting close against its front portion is a swinging arm. The cylinder turns freely upon the axis pin, which latter protrudes a short distance through the rear of the cylinder, and is received within a curved slot or bearing provided for it in the recoil shield, so as to allow of the swinging movement of the arm.

Claim.—The employment, in combination with the axis pin E, of the curved slot cd and swinging arm F, substantially as and for the purpose shown and described.

No. 35,420,—EDWARD JOSLIN, of Keene, N. H., and D. L. GIBBS, of Norwich, Connassignors to C. B. ROGERS & Co., of Norwich, Conn.—Improvement in Hub Mortising Machines.—Patent dated May 27, 1862.—This invention consists in providing a convenient thumb lever by which the index pin is drawn from the d.a. ring by a touch of the thumb when the hand is placed on the wheel to turn the hub for another mortise; also in the use of a sliding piece that raises the spring from notches in the tilting bar that regulates the length of the mortise. The desired angles for the mortise are obtained by adjusting the movable collars on a bar that connects with the bed and passes through a swivel-head, when the bed is tilted either way, in connexion with set screws and stop plates.

Claim.—First, the thumb lever A, when used in combination with the spring e, to draw the

index pin out of holes in dial ring.

Second, the sliding plate H, on the tilting bar L, when used to raise the spring K, as specified

Third, the swivel-head, three movable stop plates U U, set screws II, and adjustable collars R R, when connected with bed W by connecting bar P, for the purpose specified.

No. 35,421.--GEORGE LEACH, of Elmira, N. Y., assignor to Himself and EDMUND BURKE, of Newport, N. H.-Improvement in Grain Separators. -Patent dated May 27, 1862.-This invention consists in the employment of a series of screens fitted within a case to which a shake motion is imparted, and which is provided with knocking devices acting upon the bottom of the screens and case, in connexion with a series of blast spouts provided with a self-acting valve. an adjustable gate and refuse receptacle, all so arranged as to separate not only impurities, but different kinds of grain from each other. Within the vibrating box or case is a series of bar placed on shafts extending through the case, so that the bars may be brought into a vertical position and in contact with two screens or with a screen and chute, between which they are

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placed, so as to communicate the motion from the screen or chute below them to the one im-

mediately above, for the purpose of cleaning the screens.

Claim.—First, the arrangement of the screens and chutes in the vibrating box or case B, in combination with the spout H, passage I', and knockers L and M, substantially as and for the purpose set forth.

Second, the adjustable bars O, placed in the vibrating box or case B, and arranged with

the screens and chutes thereof, substantially as and for the purpose set forth.

Third, the cross blasts formed in the spouts a' b", by means of the openings e" e' e", as

described, for the purpose set forth.

Fourth, the combination of the spouts a a' b' b'' and b with the chamber U, fan P, adjustable gate V, and self-acting valve R, all arranged as shown, in connexion with the box or case B containing the screens and chutes, as and for the purpose specified.

No. 35,422.—WILLIAM LYMAN, jr., Malone, N. Y., assignor to Himself and S. M. WEAD, of the same place.—Improvement in Cultivators.—Patent dated May 27, 1862.—In the rear of the plough are attached two long pieces or hoes made adjustable to suit furrows of different widths by means of arms and bolts. Two short hoes are also provided with similar adjustments, and serve to remove the earth and weeds from the hill, while the long hoes restore the earth to the hill in such quantities as may be desirable.

Claim.—The combination with the plough A, and beam D, of the long hoes B B, with their sijusing arms d d and short hoes C C, with their adjusting arms ff, said parts being constructed and arranged to operate in relation to each other, substantially as shown and de-

scribed.

No. 35,423.—B. A. MASON, of Newport, R. I., assignor to SARAH J. MASON, of the same place.—Improvement in Machines for Threading Wood Screws.—Patent dated May 27, 1862.— This invention consists of a machine for threading wood screws, in which is embodied mechanism for receiving the blanks and conducting them into annular chucks; for carrying the but the blanks to a threading tool; for carrying the chucked blanks while held in a chuck by the shank, the jaws of the chuck tightening their gripe on the blank in proportion to the impinging force of the cutting tool by reason of the resistance of the cutting tool to the rotation of the blank. Also, mechanism for guiding and directing the thread-cutting tool to cut the screw by a succession of light cuts from the shank to the point of the screw, and mechanism for discharging the finished screw, leaving the chuck in condition for receiving a fresh blank.

Claim.—First, the feeding mechanism, consisting of the intermittently rotating grooved barel and casing with its slotted ways, in combination with annular chucks and chuck carrier, substantially as described.

Second, the combination of the rotating chuck carrier and a screw-threading tool, operating

substantially as described.

Third, the annular chuck in two sections, one containing the radial jaws and forming the ournal to work in fixed bearings, and the other which contains the came, the part by which the rotating motion is communicated to both parts of the chuck, when combined and arranged

substantially as described.

Fourth, the annular chuck when constructed and arranged substantially as described, in combination with a screw-cutting tool, so that the gripe of the segment jaws of the chuck are the upon the shank of the screw proportionably to the impinging force of the cutting too, which by reason of its opposition to the rotating of the chuck and blank, causing the two parts of the chuck (one containing the segment jaws, and the other the cams acting on them) to turn on each other for the purpose of tightening the gripe of the chuck upon the blank, substant: ally as described.

Fith, in combination with the cutting tool the cam carrier, with its progressive series of reducted cams, when intermittently rotated by the backward motion of the arm of the tool carrier, so as to bring each cam successively to the proper place to guide the tool while performing the operation of threading the screw by successive light cuts, substantially as desubed.

Such, the feeding mechanism, the annular chucks, and their carrier, in combination with the threading mechanism, the whole combined and arranged substantially as described.

No. 35,424.—CHESTER MERRITT. of Rutland, Vt., assignor to Himself and D. D. WHIT-Erg. of the same place.—Improvement in Water Strips for Doors.—Patent dated May 27, 1862.—This invention is explained by the claim.

Claim.—A weather strip of India-rubber, guarded upon one edge with a thin clasp of metal, which is inserted into a narrow crevice in the edge of the door or window, and having on each side of it a groove capable of receiving it when turned down, the whole being constructed stantially as described.

No. 35,425.-J. P. WORTHING, of Binghamton, N. Y., assignor to Nelson Orcutt and G. W. GREGORY, of the same place.—Improved Arrangement of Feathering Floats with Paddie Wha 's.—Patent dated May 27, 1862.—This invention consists in attaching to the axles of the revolving or loose floats of paddle-wheels a sories of cranks, and connecting rods, by means of which the several floats shall be connected in their operation, and caused to enter and leave the water in a vertical position.

Claim.—The specific method of connecting float to float, or bucket to bucket, when to the axles of each float are attached the crank A and the rod B, and when the whole is combined

with the interlacing bars C C.

No. 35,426.—JOEL HARRIS, of New Carlisle, Ind.—Improvement in Bee-Hisses.—Patent dated May 27, 1862.—This invention consists in combining two or more angular chambers with their enovable comb frames or frames and honey boxes, so that ready access may be had to either chamber without disturbing the other or its contents, the bottom of each chamber being composed of a single inclined plane for the ready escape of excrementitious matters, worms,

Claim.—The combination of the chambers L L' with the comb frames E E, and the single inclined plane bottoms D D with the slide m, by means of which the communication between the two chambers L L' can be closed or opened at pleasure, the whole being constructed

and arranged in the manner and for the purpose specified.

No. 35,427.—MICHAEL MANN, of Syracuse, N. Y.—Improved Artificial Fuel.—Patent dated May 27, 1862.—The ingredients of which this composition consist are coal-dust, flour, coal or wood tar, pitch, rosin, asphaltum or petroleum, plaster, clay, and water, properly prepared and mixed.

Claim.—The composition composed of the ingredients combined as described, and in about the proportions, for the purpose set forth, the same constituting an improved, new, and useful

article of manufacture.

No. 35,428.—J. Q. Adams, of Highspire, Pa.—Improvement in Horse Rakes.—Patent dated June 3, 1862.—This invention consists in the employment of a series of spring plates secured to a roller above the axle, the ends of which plates are attached severally to the rake teeth by means of an eye, so as to allow the teeth to slide freely therein, by which means the teeth are held down when at work, and raised all together when necessary. The roller upon which the springs are secured is provided with a handle which may be operated by the driver.

Claim.—The combination of the spring plates M M with the rake teeth I I, when turning on a separate shaft or axis from said rake teeth, for the double purpose of holding the rake teeth down more firmly, and of raising them from the ground when required, substantially we

specified.

No. 35 429.—J. S. ATTERBURY, JAMES REDDICK, and T. B. ATTERBURY, of Pittsburg. Pa—Improvement in the Manufacture of Hollow Glassware in Bas-relief.—Patent dated June 3, 1862.—The nature of this invention will be understood from the claim.

Claim.—A new manufacture, consisting of glassware with open illuminated relief work

on its surface, substantially as described.

No. 35,430.—J. S. Atternury, James Reddick, and T. B. Atternury, of Pittsburg. Pa.—Improvement in the Munufacture of Hollow Glassware.—Patent dated June 3, 1882.—This invention consists in forming figures or ornaments upon a piece of transparent glass, by cutting or pressing the same, and afterwards pressing or imbedding upon this piece a portion of glass equally transparent and made plastic by heat, so that the grooves and cavities of the figures, &c., are completely filled with glass and the two portions become incorporated, leaving the outer surfaces smooth, the appearances of the figures or ornaments remaining as distinct as before the plastic glass was applied.

Claim.—A new manufacture of glassware, which, while it shall have smooth surfaces both without and within, and while its internal structure is entirely solid without any open spaces or interstices left therein, shall present the appearance of cut or pressed glass, sub-

stantially as and for the purpose above described.

No. 35,431.—George Bailley, of Buffalo, N. Y.—Improved Baggage Check.—Patent dated June 3, 1862.—This invention consists in the employment of a tag composed of a sheet of brass turned over at its edges to form grooves into which is slipped a card, having the number and names of the places printed thereon, a duplicate of which is given to the passenger as his check; the tag to be attached to the article of baggage by a leather strap.

Claim.—The described method of checking baggage, that is to say, by attaching to the article a ticket holder, and inserting therein a card which is the counterpart of the one gives

to the traveller, substantially in the manner and for the purpose set forth.

No. 35,432.—C. F. Barager, of Candor, N. Y.—Improved Reversible Plough.—Patent dated June 3, 1862.—This invention consists in combining, with a right and left hand plough, a movable or swinging section secured to an oblique spindle provided with a pinion

its upper end, operated by a gear wheel in such a manner that the movable section may turned and made to correspond with either of the fixed sections of the mould board as the am is turned for a right or left hand plough.

Claim.—The combination of the movable or swinging section of mould board I. spindle J, ar wheels K c, and pivoted beam E, with the fixed sections of mould board II H', when

ranged to operate in the manner and for the purpose set forth.

No. 35,433 .- W. B. BEMENT, of Philadelphia, Pa .- Improvement in Stands for Machines .stent dated June 3, 1862.—This invention consists in constructing the supporting strucres or frames of machinery, with a cabinet or tool receptacle formed therein, by casting em together in one entire piece.

Claim.—The main supporting structure of machines, having a cabinet or safe tool recepsee formed therein, whon cast in one entire piece, essentially in the manner and for the pur-

ses set forth and described.

No. 35,434.—W. B. BROADWELL, of Springfield, Ill.—Improvement in Corn Ploughs.atent detect June 3, 1862.—The plough is formed of two inclined bars or standards attached two borzontal beams. To one of the standards is secured, by means of metal clamps, a st which connects the two parts of the plough together. Between the two parts, and secured the connecting bar, is a fender or guard made in two parts, and composed of a series of trailel rods placed in a flaring position for the purpose of preventing the clods of earth from ing upon the plants by the action of the shears as they pass on each side.

Claim.—In combination with the bar G and clamps H H the fender or guard I, applied to

beams A A and bar G, as and for the purpose specified.

No. 35,435.—S. B. Conover, of New York, N. Y .- Improvement in Potato Diggers .-Ment dated June 3, 1862.—This invention consists in constructing the rotary screen of two siral conveyors placed on a common axis or shaft and open at one side, the screen having a itable shake motion imparted to it, so that the weeds, trash, and earth are separated from e potatoes as the latter are conveyed by the screen into the tilting receptacles at the rear of

Claim.—First, the combined rotary screen, conveyor, and weed separator, formed of two pital parts J J, connected to a common axis or shaft I and provided with openings a a,

abstantially as and for the purpose set forth.

second, the scoop or share M and rotary screen, conveyor, and weed separator, having a take motion as described, in combination with the tilting receivers P Q, all arranged for int operation as and for the purpose specified.

No. 35,436 .- J. W. COOMBS, of Mount Vernon, N. Y .- Improvement in Coal Scuttles .stent dated June 3, 1832.—This invention consists in the arrangement of a movable sieve the interior of a coal scuttle, in combination with an ash-box hinged to the bottom of the uttle, so that the dirt or ashes mixed with the coal can be separated from it, and be passed rough the sieve into the ash-box. Upon the upper edge of the scuttle are spring ears proded with two sockets, one to receive the bale, and the other the pivot of the hinged lid, so at the lid can be easily taken off for the purpose of packing the scuttles for transportation. hinged movable lid is attached to the upper edge of the scuttle in such a manner that the al can easily pass out as the scuttle is tilted, and the dust be prevented from escaping tring the operation of sifting.

Claim.—First, the combination of the scuttle A, hinged ash-box E, shaking sieve D, and mile j, all constructed, arranged, and operating in the manner and for the purposes set forth. Second, the combination with the sieve D and scuttle A of the ring h, as and for the pur-

se specified.

Third, the arrangement of the jointed removable lid C, in combination with the scuttle A,

and for the purpose described

Fourth, the combination with the hinged lid C and bale B of spring ears f, each provided th two sockets g g, as and for the purposes specified.

No. 35,437.-L. C. CROWELL, of West Dennis, Mass.-Improvement in Aerial Machines. atent dated June 3, 1862.—This invention consists in the arrangement of two or more flat ap-pointed hinged wings capable of being turned to a horizontal or a vertical position, ador one or more rotary hinged propellers, the shafts of which can also be brought to a rizontal or vertical position, or to any desired inclination, in combination with a pyramidal inged steering apparatus or rudder, and with a suitable car, in such a manner that from the ud car the motion of the whole machine can be controlled by the position given to the proeilers, to the wings, and to the rudder.

Claim.—The arrangement of the hinged wings A, car B, and pyramidal winged steering paratus or rudder E, in combination with the adjustable hinged propeller C, constructed

ad operating substantially in the manner and for the purpose shown and described.



No. 35,438 .- B. F. FIELD, of Sheboygan Falls, Wis .- Improvement in Seeding Machines .-Patent dated June 3, 1862.—Under the grain seed compartment is arranged a grain measuring slide, furnished with openings corresponding in size with those in the bottom of the seed compartment, and attached at one end to a screw fitted to work within a nut in one end of the hopper, so that the measuring slide may be moved to cover more or less the seed openings in the false bottom of the grain compartment to adapt the machine to sow any given quantity of grain to the acre. On the periphery of the thumb nut, which operates the slide, are con which mesh into a wheel, on the outer end of whose axis is fixed an index pointing to figure on a dial to indicate the number of bushels sown to the acre. A shut-off shde is arrangel under the measuring slides to stop the flow of seed when necessary. Each of the compart ments is provided with a stirrer, consisting of a disk of metal of an elliptical form and secured in an oblique position upon a shaft in the hopper, to which disk motion is given by means of a band passing over the hub of the driving wheels.

Claim.—First, the combination of the grain measuring slide G, screw f, thumb nut g, index i, and deal N, with the bottom a and shut-off slide I, when arranged in the manner and

for the purpose set forth.

Second, the combination of the compartments E F, false bottom a, slides G I, tubes JJ,

and chute o, when arranged as described.

Third, the agitators, consisting of elliptically-formed disks of metal p, secured in an oblique position on a horizontal shaft q, arranged to operate in the manner and for the purpose set

No. 35,439.—D. R. Fraser, of Chicago, Ill.—Improvement in Piston Packing.—Patent dated June 3, 1832.—This invention consists in admitting steam upon the outer channeled circumference of the outer or main packing rings, and in an arrangement of two or more valves, two or more shding seats, and two or more springs, with relation to the piston head and follower and the packing rings. The inner ring is constructed with a channel in its outer circumference, and with a wedge shaped slit or cut having a wedge fitted in it, and also with a steam passage leading from its inner circumference into the channel, the said steam passage being enclosed by a valve chamber. At the base of the piston head is arranged a combined wedge and set bolt in relation to the rings, so that the weight of the piston upon the wedge tends to keep the packing distended and steam-tight. Between the ends of the arms of the piston head and the inner circumference of the packing rings, are interposed sliding spring wedges, so that compensation for wear of the packing rings shall be made as fast as the wear takes place.

Claim.—First, employing through means, substantially as described, the combination of

the expanding action and compressing action of steam at one and the same time upon the ring or rings I of a piston, substantially as and for the purposes described.

Second, the arrangement of the valves, their seats, their springs, and their chambers, with relation to the piston head and follower and the packing rings, for the purposes described Third, the construction of the ring C, substantially as and for the purpose described.

Fourth, the arrangement and combination of the packing rings C H I, the whole con-

structed in the manner and for the purpose described.

Fifth, the combination and arrangement of the wedge E, or its equivalent, with the centring bolt or screw D of the piston, substantially in the manner and for the purposes described Sixth, the interposition of self-adjusting wedges B, substantially in the manner and for the purposes described.

Seventh, adjusting the packing by means of wedges B applied between it and the arms of the piston head A, whether the wedges be operated automatically or otherwise, for the purpose

set forth.

Eighth, the spaces p, substantially as and for the purposes set forth.

No. 35,440.—C. H. FROST, of Peekskill, N. Y.—Improvement in Heaters.—Patent dated June 3, 1862.—In this heater the fire-pot is corrugated and made in the form of an inverted section of a cone, the corrugations extending from top to bottom and opening into the ash-pit The fire-pot rests upon a plate forming a part of the upper surface of the ash-pit, and is cast in connexion with the sectional part of the base, and furnished with openings corresponding with the cold air space around the ash-pit.

Claim.—First, the extension of the corrugations of the fire-pot from the top to the bottom.

and opening into the ash-pit, substantially as set forth.

Second, the combination of a grate and fire-pot in such a manner as to leave the spaces formed by the corrugations of the fire-pot and rim of the grate open into the ash-pit and free for the passage of air, substantially as set forth.

No. 35,441.—II. N. FRYATT, of Belleville, N. J.—Improved Centrifugal Machine for Filtering Liquids.—Patent dated June 3, 1862.—This invention relates to an improvement in the well-known centrifugal machine, having a concentric annular compartment outside of a central chamber which has been used for drying clothes by centrifugal force, and also for separating molasses from the crystals of sugar, so that it may be applied to the purposes of decolorizing saccharine juices and to the rectification of alcoholic diquids, &c. The claim explains the nature of the improvement.

Claim.—Constructing the centrifugal machine for filtering purposes with an annular filtering thember surrounding a central reception chamber, the said filtering chamber having a closed top and bottom, and its sides being formed of an outer and inner pervious cylinder, with the isside filled with pulverized charcoal, or its equivalent, substantially as and for the purpose set forth.

Also, in combination with the central reception chamber and the annular filtering chamber, the cap extending inward over the reception chamber and the inner cylinder, to form a chamber in which the liquid accumulates before pressing through the filtering chamber, substantially as and for the purpose set forth.

No. 35,442.—I. A. HEALD, of Washington, D. C.—Improvement in Machines for Making Cigars.—Patent dated June 3, 1832.—This invention consists, first, in the employment of a series of grooved rollers, the grooves and ridges of which fit into each other by pairs, but gradually lessen in depth from the pair between which the leaf or wrapper is first in erted, to the last pair, when it is passed between smooth rollers; second, in the use of cylinders and cylindrical casings so constructed that the space between the periphery of the cylinder and the inner surface of the casing shall correspond with a cigar of any required shape or size for the purpose of forming the fillings of cigars; third, in the combination of two rolls with a cylinder, the peripheries of all of which correspond to the required shape of a cigar, and are made to revolve at a proper speed and in proper direction to revolve the filling or core at a suitable point on the periphery of the cylinder during the wrapping or finishing process, the bearings of the rolls being in a rock frame, so that they may be thrown off from the cylinder to let the filling between them or the finished cigar fall out; fourth, in the employment of a finger for the purpose of facilitating the wrapping process at that end of the filling around which the wrapper commences to wind, by holding the end of the wrapper upon the filling during its first revolution; fifth, in a revolving sliding shaft provided with a conical aperture of suitable size and shape to admit the pointed end of a cigar, and having a slot the length of said aperture to admit the last end of the wrapper as it is wound around the pointed and enclosed end of the cigar. An apron is provided upon which the wrapper is placed preparatory to its being rolled upon the filling, combined with which is a friction roller for facilitating the insertion of the wrapper, so constructed that the said roller is made to revolve by pressing against a roll, between which two the wrapper passes at a proper time for the finger to catch and hold it, so as to insure its winding around the filling.

Claim.—First, a series of grooved and smooth rollers F F' G G', constructed and operating

mbstantially as and for the purpose set forth and described.

Second, the combination of cylinders I I' and cylindrical castings J J', constructed and

operating substantially as and for the purpose set forth.

Third, the combination of rollers K K' with the cylinder I', operating substantially as described and for the purpose set forth.

Fourth, apron Land friction roller t in combination with rollers K K', constructed and

operating substantially as set forth. Fifth, finger p, or its equivalent, when operated substantially as described and for the pur-

Pose set forth.

Sixth, the revolving sliding shaft N, constructed and operating substantially as and for the purpose specified.

No. 35,443.—EDWARD HEATON, of New Haven, Conn.—Improvement in Ordnance.-Patent dated June 3, 1862.—In the breech of the gun is a charge chamber of a nearly sphemidal form, and contracted towards the front to serve as a ball seat so as to fit the rear end of the projectile for the purpose of entirely exploding the charge and prevent the escape of the Tares.

Claim.—The construction of the screw breech with the ball seat d d, and a charge chamber D, which is contracted at i i toward the seat, as and for the purpose shown and described.

No. 35, 444.—JACOB HOLBEN, of Allentown, Pa.—Improvement in Operating Grinding Mults—Patent dated June 3, 1862.—This invention consists in the use of sugar or other and a substance for cleaning millstones instead of the usual method of picking the stones. Claim.—The method specified of cleaning millstones by the use of sugar or other similar substance in cleaning the stones.

No. 35, 445.—Samuel Holdsworth, of Durham, England.—Improvement in Looms.—Patent dated June 3, 1862.—Patented in England May 17, 1830.—This invention relates for the most part to looms for weaving Brussels carpet or other terry or piled fabrics. It does not admit of a brief description.

Claim. -First, the combination of the saddles C, the catch E, the traverse bar F, and instrument G, the switch bar J and the doffer plate k, the whole applied and operating substan-

half as set forth, to insert and withdraw the terry or pile wires in a loon.

Scood, the construction of the lever B', through which the mechanism for inserting and "thdrawing the pile or terry wires is actuated, with a curved slot B*, substantially as and in the purpose set forth.

Third, the combination of the pusher H and the instrument N, constituting a means of transferring the wires from the position to which they are withdrawn from the fabric to that from which they are reinserted, substantially as described.

Fourth, the employment of the supporting post N2 of the instrument N as a mean of

tightening the west, substantially as specified.

Fifth, the combination for oiling or lubricating the terry or pile wires of a vessel sl. grooved or channelled bar u, and a sponge u1, the whole applied and operating substantial as set forth.

Sixth, the combination of the picking nipples v' v2 attached to the wheel P, the leven P P2, the shaft P5, the sectors P3 P3, and the straps P3 P7, connecting the levers with in

pickers, when arranged and operating as specified.

Seventh, the combination of parts for operating the tappets, consisting of the separate shall S, the internal toothed wheel Q, and the pinion Q', the whole applied and operating substant tially as specified.

No. 35,446.—P. N. HORSELEY, of Jersey City, N. J.—Improvement in Ventilators for Hats.—Patent dated June 3, 1862.—This invention consists in the arrangement in the interior of a hat or head covering, of a movable frame, one part of which is attached to the hat, with its other part is made to slide in and out in such a manner that, whenever the wearer deares, the hat can be raised from the head and retained in such a position that the air can have access around the head and cause a free ventilation.

Claim.—The air arrangement of the sliding ring C, in combination with the hat or head covering B, and connected to the same by rods s and spring sockets c, or by other equivalent

means, substantially as and for the purpose shown and described.

No. 35,447.—WILLIAM HOWARD, of Flushing, N. Y.—Improvement in Coal Oil Lamp Chimney.—Patent dated June 3, 1862.—This invention consists in forming a glass chimney and cone of one piece, the parts being joined at their lower parts, and the chimney part being provided with apertures for the admission of air.

Claim.—As an improved article of manufacture, a chimney and cone made with the base of the two parts joined together; the cone being placed within the chimney, and the lacer being provided with apertures b to admit air between the cone and chimney, all as shows

and described.

No. 35, 448.—A. S. Hudson, of Sterling, Ill.—Improved Spring Spur.—Patent dated Jum 3, 1862.—This invention consists in the application to a spur, of two curved spring arms bear in such a manner that when they are slipped or sprung over the instep of a boot they was draw the spur up against the heel and retain it firmly in place. Combined with the sa: spring is a strap or wire which passes under the boot and is provided with two loops to what the pantaloons can be fastened to serve as straps for the same.

Claim.—First, the employment or use of the curved spring arms B in combination with

the spur A, substantially in the manner and for the purpose shown and set forth.

Second, the arrangement of the looped wire C passing under the foot, in combination with the curved spring arms B, applied and operating as and for the purpose specified.

No. 35,449.-T. S. HUDSON, of East Cambridge, Mass.-Improvement in Inkstands.-Patent dated June 3, 1862.—This invention consists in providing the top of the inkstact with a separate annulus, in combination with a perforated cap and cover, in such a manager as to enable the cover to be revolved within and independently of the annulus upon to cover, and also to be forced down upon the cap by the annulus when secured upon the cap When the inkstand is in use, the perforations in the cap and cover are brought in juxtaposition; but when closed, the cover is moved around so as to cover the perforation in the cap-

Claim.—An inkstand, as constructed, with the separate annulus d combined with im perforated cap b and cover g, in manner and so as to operate therewith, substantially ω

described.

No. 35,450.—JACOB JAHRAUS and J. G. BICKEL, of Buffalo, N. Y.—Improvement is Faucets.—Patent dated June 3, 1862.—In the nozzle of the faucet is a cylinder which is p-> vided with a piston, and forms a force-pump or syrings. When a glass of beer has been drawn from the faucet, the beer is partially withdrawn by the piston up into the cylindand by means of a spring the piston is forced down, and injects the beer into the glass we sufficient force to cause it to foam and sparkle. In the side of the faucet is a small to opening against the plug when the faucet is shut, but connecting with a hole drilled to the centre of the plug, and there meeting a vertical hole through the handle of the plug wise the faucet is open. A rubber tube connects the tube in the faucet with a vent tube in the top of the cask, so that when the faucet is open a communication will be formed from the ar to the inside of the cask, causing the liquor to run freely.

Claim.—First, the combination of a torce-pump or syringe with the faucet, when exp-

structed and operating substantially as described.

Second, the formation of the holes op in the key of a faucet with the tubes m g, for the purpose of producing a self-acting vent, substantially as described.

io. 35,451.—W. H. Johnson, of Springfield, Mass.—Improved Marine Propeller.—Patons al June 3, 1832.—Immediately in the rear of the stern-post is a vertical shaft resting upon at a short distance above the step, a rigid forked arm, having its forks gradually curved wards and brought to a point at the extreme end. Between these ends, and at the crotch he fork, is pivoted to the arm an elastic blade which is free to vibrate horizontally ween the legs of the fork, by which means it is allowed a considerable lateral sweep.

**Caim.—A propeller for vessels, consisting of a rigid vibrating arm H, to which is pivoted static blade M, substantially as specified.

io. 35,452.—FREDERIC KETTLER, of Milwaukic, Wis.—Improvement in Rotary Pumps.—ent dated June 3, 1862.—In this pump the axle is secured to an inner plate having secured to at from each side in which the pistons move. The pistons are provided with cog ers placed between them and the plate for the purpose of easing the motion of the pistons abutements of the pistons are secured to the same by means of hinges. The pistons and ward cog rollers are partially covered by plates. In the upper part of the cylinder is an valion, which contains a spring that presses against the inner plate to prevent the escape water. Around the axle is placed a volute spring which serves as a packing. The education of the provided with a small hole for the escape of water above that point, to prevent it is in freezing.

Main.—First, the combination of cog-rollers D with piston C and plate B, as shown and

econd, the abutments E and plates E' and pistons C, as combined and arranged with the ole apparatus.

hrd, the elevation F', in combination with the spring F, arranged and combined with the araus as described.

outh, the volute spring G arranged in the manner and for the purpose specified, in comeron with the apparatus, forming a packing around the axle A.

ifth, valve m, in combination with the apparatus, in the manner and for the purpose set

io. 35,453.—ARTHUR KINSELLA, of Cascades, Washington Territory.—Improvement is isl Machines.—Patent dated June 3, 1862.—This invention consists in the employment gas generator and condenser, connected to a suitable cylinder by means of pipes provided a stopcocks that are alternately opened and closed by the motion of a crank shaft in committen with fan wheels and discharge pipes passing out at the end of a rocket-shaped balland with a steering gear, in such a manner that by the action of the fan wheels the air withing driven out at the stern of the balloon, and the latter is propelled in the same manner rocket.

lam.—The arrangement of the generator D and condenser E, connecting with the nder C by means of pipes d d' g g' and stopcocks e' e' h h', operated by crank shafts f i, lescribed, in combination with the fan wheels F F', tubes G G', and with the rocket ped balloon A, the whole being constructed and operating in the manner and for the purspecified.

o. 35,454.—WILLIAM KOSS, of McGregor, Iowa.—Improved Trace Fastening.—Patent d June 3, 1832.—This invention consists in providing the trace with an adjustable double og joint trace-piate, in which a revolving loop and rod work, with a shoulder sunk in p ate pieces for shortening or lengthening the traces; the object being to facilitate the istment of the trace, to obviate the necessity of cutting the trace when the horse is down, to admit of instantly detaching the horse from the carriago when necessary, which may effected by pulling a cord attached to a hook so that the revolving rod is released from its ket.

Main.—The adjustable trace-fastening, consisting of the double spring plate B, hinged at the rod S, and springs F and P, all constructed and arranged as described and set forth.

10. 35,455.—T. S. LAMBERT, of Peekskill, N. Y.—Improvement in Boilers and Tealler.—Patent dated June 3, 1832.—This invention consists in providing a bail and lug so pied to each other that the weight of the boiler will cause the lug to sustain the bail at angles to the upper surface of the boiler when it is inclined toward the spout, as in pourtout its contents, while the bail can readily be turned down when the boiler rests upon its tom. A cover is also connected to the boiler by means of the same lug in such a manner to almit of its being easily turned around upon the lug, and at one or more points be alwein the same and taken off from it and the bail.

Jaim.—First, the construction and combination of a lug and bail in such a manner by over or pins that the weight of the boiler when inclined in pouring will fasten the two rether, substantially as set forth.

econd, the combination of the arm A, figure 3, of the cover with the lug and bail, in the iner substantially as set forth.

No. 35,456.—J. B. LEVERICH, of New York, N. Y.—Improvement in Cover for Gan Lock-Patent dated June 3, 1832.—This invention consists in the comployment, for the purpose of protecting the locks of fire-arms, of a cover or sleeve made of India-rubber, or other seable material, and provided at its ends with clastic bands arranged in such a manner that is ends can be expanded and contracted at pleasure.

Claim.—The employment or use of a cover A, of India-rubber cloth, or other saint material impervious to water, having in its ends elastic bands a, or their equivalent, substially as described for the purpose of protecting the lock of fire-arms.

No. 35,457.—E. B. MANNING, of Cromwell, Conn.—Improvement in Tea and Coffee Pro-Patent dated June 3, 1862.—The object of this invention is to obviate the objections as use of Britannia metal incident to its liability to melt at a comparatively low temperata and it consists in constructing the lower part and bottom of Britannia tea and coffee part iron or other metal which will bear a high degree of heat without injury, so that the van

may have a flat bottom and rest directly upon a range or stove.

Claim.—An improvement in the construction of Britannia pots, by making the lower bot and bottom of such vessels of iron or a metal capable of bearing much greater has: in

Britannia, substantially as and for the purpose set forth.

No. 35,458.—Morris Mattson, of Boston, Mass.—Improvement in Douche Baths.—Poent dated June 3, 1862.—The nature of this invention is explained by the claim, the coast being to provide a bath the temperature of which shall be under control, and readily age lated to adapt it to the condition of the patient.

Claim.—A bath apparatus, consisting essentially of two or more tanks or reservoirs taining water of different temperatures, the outlets from which unite in one delivery parand are commanded by a suitable cock or cocks, substantially in the manner specific,

the purpose specified.

No. 35,459.—JOHN MAXHEIMER, of New York, N. Y.—Improvement in Bird Cagu-

Patent dated June 3, 1862.—This invention is explained by the claim.

Claim.—The arrangement and combination of the cups C with the cage A and size doors B, as shown and described, so that the door will rest upon the cups, holding the place and preventing the waste of seed; also permitting the filling of the cups without is removal; likewise entirely closing the opening when the cups are removed for cleaning. as set forth.

No. 35,460.—R. S. MERRILL, of Lynn, Mass.—Improvement in Coal Oil and other Laups. Patent dated June 3, 1862.—This invention consists in combining with a reservoir, will contains the oil to be burned, a tube and burner, the latter being arranged in relation to reservoir, so that the distance between the burning part of the wick and the surface of oil shall be maintained by hydrostatic pressure, which shall be constant, or nearly so, for purpose of supplying the flame with a uniform quantity of oil, the object being to dispend with the mechanical devices specially designed for accomplishing the same purpose.

Claim.—The combination of an oil reservoir and burner, under the arrangement set of so that the burning part of the wick shall be constantly supplied with oil, automatically substantially as described.

No. 35,461.—JACOB MILLER, of Canton, Ohio.—Improvement in Fanning Mills.—Paradated June 3, 1862.—This invention consists in combining with the main shoe and rides trough, to which is connected a riddle, so that the latter may be inclined towards either of the trough, for the purpose of giving the grain a second cleaning as it is carried to side of the machine for bagging. Combined with the transverse trough and riddle is a place or air passage leading from the fan chamber to the trough, so that a blast may be drived the transverse trough and riddle is a place of the trough and riddle is a place of the trough and riddle is a place of the trough as through the trough and its screens, to give the grain a second action of air as it passes to the

side of the machine.

Claim.—First, in combination with the main shoe and its riddle, the transverse troops and its riddle, for the purpose of giving the grain a second cleaning as it passes to the

of the machine, substantially as described.

Also, in combination with the transverse trough and its riddle, a conducting pipe * introducing a blast into the trough, to give the grain a second action of air as it passes the transverse riddle, substantially as described.

Also, the so arranging of the riddle or riddles in the trough as that they may be inclined to either side of the machine, for the purpose and substantially in the manner set forth.

No. 35,462.—JACOB MILLER, of Canton, Ohio.—Improvement in Fanning Mills.—Paus dated June 3, 1862.—This invention consists in the employment of an auxiliary ridde. 🗷 🕯 riddle and shoe placed upon the outside of the fanning mill, and to which the grain is conducted after having been subjected to the operation of the riddle within the case, to: : s purpose of giving the grain a second cleaning. Leading from the fan blower to the auxi ary shoe or riddle is a pipe for the purpose of conducting air to the said shoe. The aux Lay riddle and air conveyor may be so arranged as to be placed on either side of the fanning mil

Claim.—First, in combination with the main riddle and shoe, an auxiliary riddle on the side of the fanning mill, to give the grain a second cleaning, substantially as described.

Also, in combination with the auxiliary riddle, a conducting pipe or air passage for intro-

ducing a blast to said riddle, substantially as described.

Also, in combination with the main riddle and shoe and the auxiliary riddle, a conveying apparatus for bringing the grain from underneath the main riddle to the auxiliary riddle, substantially as described.

Also, the so constructing of the fanning mill and the auxiliary riddle as that the latter

may be used on either side of the machine preferred, substantially as described.

No. 35,463.—JACOB MILLER, of Canton, Ohio.—Improvement in Fanning Mills.—Patent dated June 3, 1862.—This invention consists in the arrangement of an upper and lower rolds in the shoe, with a chute board between them and the second blast passage and delivery spout, so that the grain, as it passes through the upper riddle, will be carried back and fall upon the lower riddle, to receive a second action of air from the same blast as is passes to the delivery spout.

Claim.—The arrangement of the riddle C E and conducting board D with the two wind passages and the delivery spout or trough I, for the purpose of subjecting the grain to a

double or second current of air to clean it, substantially as described.

No. 35,464.—JONATHAN MOSTELLER, of Lock Haven, Pa.—Improved Cement for Roofing and for other Purposes.—Patent dated June 3, 1862.—The ingredients of which this compostion consists are sand, gravel, iron-ore clay, common coment, red lead, gum shellac, gas tar, lineed oil, and pitch tar, to which are added yellow ochre, iron ore, and fire-brick clay in quantities and proportions to effect the color desired.

claim.—The combination of the ingredients mentioned, with the mode and manner of applying and coloring the same, substantially as described and for the purpose set forth.

No. 35,465.—ALVAN MUNSON, of Peterborough, N. H.—Improvement in Pumps.—Patent dated June 3, 1862.—This invention consists in the employment of a check or retaining vare in the piston, which latter is bevelled at its lower side, to form a V-shaped edge at the suer end of the plunger. The front part of the valve is provided with a projection, which extends within the body of the pump and projects over a groove or channel made longitudinally in it, by which the water is allowed to escape and pass down the induction pipe for the purpose of preventing the pump from freezing. The handle of the pump is attached to the paston shaft by means of an eye or loop, and on the handle is placed loosely a collar bying a semicircular grooved end which fits in the back part of the eye. The face of the count is provided with projecting teeth fitting in notches in the shaft, the teeth being held in the notches by means of a nut working on a screw thread on the handle, so that the handle

may be varied in position on the shaft, as desired.

Claim.—First, having the piston H provided with a V-shaped edge a at the outer part of it valve seat, when used in connexion with the groove or channel b in the chamber A and the projection a of the check valve D, arranged as shown, to admit of the escape of water from the pump by the depressing or forcing down of the piston, as and for the purpose set

Second, connecting or securing the handle K to the shaft G by means of the eye e, collar L provided with the teeth k, the notches i in shaft G, and the nut M, all arranged as shown, whereby the position of the handle K may be changed or varied on the shaft as circumstances may require.

No. 35,466.—G. W. NICHOLS, of Wheatland, Iowa.—Improvement in Retary Pumps.-Puent dated June 3, 1862.—Within a cylinder secured in the well is placed, eccentrically to the first, a second cylinder of smaller diameter, through which extends a sliding piston ming closely therein, and serving as a valve to the pump. The inner cylinder is revolved by means of a vertical shaft tube, which also serves as the elevating pipe. The piston is provided with two transmitting cavities, respectively, in the ends and opposite sides thereof, into which the water is successively forced, whence it passes through apertures into chambers on the outer side of perforated partitions, which are formed on the inner cylinder, and between which the piston slides, the water then being delivered through apertures up inte the exit chamber.

Claim.—The combination of the eccentric inner driving cylinder B, transmitting the water through itself with the outer cylinder A and piston C, substantially as specified.

Also, the sliding piston C, transmitting the water to the cylinder B, in combination with

and cylinder B and outer cylinder A, substantially as specified.

Also, the combination of the transmitting cavities c c in the piston C with the valve exertures p p in the cylinder B, arranged and operating substantially as specified.

Also, the combination of the side chambers t and perforated partitions b b in the cylinder B with the piston C, substantially as set forth.

Also, the employment of the revolving driving shaft D as the elevating pipe, in combinaton with the cylinders A and B, substantially as specified.

Also, the combination of the tubes I and m, arranged and operating substantially as and for the purpose specified.

No. 35,467.—F. E. OLIVER, of New York, N. Y.—Improved Combonation of Pencil San and Eraser.—Patent dated June 3, 1862.—This invention consists in the employment of a sleeve made of an India-rubber compound, which can be used as an eraser, and made a slide upon the pencil, so as to cover and protect the point.

Claim.—As an article of manufacture, the combined sleeve and eraser, constructed a

operate substantially in the manner and for the purposes specified.

No. 35,459.—FREDERICK POHLMAN, of Coxsackie, N. Y.—Improvement in Hay and Sow Cutters —Patent dated June 3, 1862.—This machine is constructed with a knile operate at one end of a feeding trough, to which knife, motion is given by the combined power of hand working a lever, and the foot by means of a treadle, at the same time operate; toothed feeder working through a slot in the bottom of the trough. The blade of he worked feeder is held against the guide by means of a cord and spring. A cord attached to the two end of a spring extending from the rear of and over the machine serves to aid in the rear of the cutter and to elevate the feeder.

Claim.—First, the combination of the knife with the lever C, the treadle G, and the

H, the whole acting as and for the purposes named.
Second, the feeder J, as connected with the shaft H and the springs M and N, as supported by guide K, and working in the transverse slot, as described, the whole construct in the manner and working essentially as and for the purposes set forth.

No. 35, 469.—D. C. RAND and M. WADHAMS, of Perinton, N. Y.—Improvement in Dring Grain and Similar Substances.—Patent dated June 3, 1862.—This apparatus consists of hollow cylinder hung upon a horizontal shaft, to which a rotating motion is given by a convenient power. In the sides of the cylinder are one or more openings provided with valves, which open inwards, so as to admit also when on the upper side of the cylinder are rotates, but close so as to prevent the escape of the grain, &c., as the cylinder turns.

Claim.—The employment of a rotating cylinder for containing and keeping in motion the containing and keeping and containing and keeping and containing and cont

Claim.—The employment of a rotating cylinder for containing and keeping in motion is material acted upon, provided with a valve or valves, or their equivalent, acting automatical for the admission of air for ventilating the contents, substantially in the manner and for the

purposes shown and described.

No. 35,470.—C. W. RAWSON, of Little Prairie Ronde, Mich.—Improvement in Starp Entractors.—Patent dated June 3, 1862.—This invention consists in applying to a shall which the lifting chain is wound, a wheel toothed on its inner periphery to receive at opposite points the pinions of two drum-shafts, upon which are wound ropes to be attached to have drawing the same in opposite directions.

Claim.—The combination of the gearing C E E with the shaft B and drums D D, to latter having the ropes F F wound on them in the same direction, and all arranged on a latter having the ropes F F wound on them in the same direction, and all arranged on a latter having the ropes F F wound on them in the same direction, and all arranged on a latter having the ropes F F wound on them in the same direction, and all arranged on a latter having the ropes F F wound on them in the same direction.

ing A for joint operation, as and for the purpose set forth.

No. 35,471.—H. B. RECORD, of Turner, Maine.—Improvement in Tree Protectors.—Puent dated June 3, 1862.—The invention consists in surrounding the trunk of the tree wire-cloth or other suitable material, upon the top of which is placed a "bonnet," of small material, in the shape of an inverted cone, having its inner side smeared with tar coversion. It is purpose of preventing caterpillars, ants, &c., from ascending the tree.

Claim.—The shield and bonnet, made, constructed, and used in manner and form subs

tially as described.

No. 35,472.—NATHAN RICHARDSON, of Gloucester, Mass.—Improved Fish Center or Ball.—Patent dated June 3, 1862.—This invention consists in the employment of two 1823 of triangular teeth placed upon shafts, which are geared to rotate in opposite directions. But tween the teeth are placed washers, which admit of the teeth passing between each of the shafts is arranged to rotate slower than the other, thus causing its teeth was a feeders, and effecting also a grinding as well as a cutting motion.

Claim.—The combination of the series of triangular teeth J, acting as cutters, with the opposite series of triangular teeth J', acting both as cutters and feeders, with the washers L

substantially as described for the purpose specified.

No. 35,473.—G. J. and H. W. Ross, of New York, N. Y.—Improvement in Hydrant - Patent dated June 3, 1832.—To the eduction pipe is attached a ring which has a project or eye, into which fits the upper end of a spring of sufficient strength to keep the tube, who not acted upon, in such a position that the cock which is in the main of the supply pipe. The water is discharged from the nozzle by turning the latter to the right or which, when released, is returned to its original position at right angles with the position at right angles with the position.

Claim.—The arrangement of the spring with the rotary eduction pipe, in the manual

shown and described.



No. 35,474.—T. W. Roys, of Southampton, N. Y.—Improved Rocket Harpoon.—Patent sted June 3, 1862.—This invention consists in providing a rocket harpoon with a cavity filled with an explosive compound, which will be fired as a bomb by the burning of the rocket. To the head of the harpoon is attached an iron bar, connecting the same with the shack by means of a ring placed in the rear of the jointed wings, so that the instrument will be stained in its place after the explosion of the loaded chamber.

Claim.—The combination of a harpoon and rocket with a bomb, substantially as described,

for the purpose of killing whales.

Also, the bar g g connecting the barb of the harpoon with the shank of the rocket and is barbs or wings s s.

No. 35,475.—T. W. Roys, of Southampton, N. Y.—Improvement in Propellers.—Patent stated June 3, 1832.—The propeller is constructed of a series of buckets linked together (similarly to an endless chain) and running longitudinally under the bottom of a vessel in a track stray along the side of the keel, which track leads into the stern and bow at about the water line, where it passes into the hull of the vessel and over a driving wheel, from whence the buckets receive their motion.

Claim.—Making the tracks or ways on the bottom and in the inside of the vessel, as described, and arranging the propeller therein, and operating the same, substantially in the

manner as set forth.

No. 35,476.—T. W. ROYS, of Southampton, N. Y.—Improved Apparatus for Raising Saskin Whales to the Surface of the Water.—Patent dated June 3, 1862.—The object of this invention is to provide a means for raising to the surface of the water, whales that have been killed and sunk to the bottom, before means have been taken to secure them with any stronger attachment than the line of the harpoon with which they have been struck, which is effected by means of a heavy barbed instrument provided with clasps, by which it is guided to the carcase of the whale along the tightened harpoon line. The upper end of this instrument is provided with a large eye, through which passes a small line from two reels, by means of which a hawser can be attached so as to raise the body of the whale.

Cisim.—First, the construction of an instrument for raising whales, with side eyes or caps, by which it may be guided by the harpoon line to the body of a whale as described. Econd. the formation of an eye on a whale raiser, through which a hawser may be hauled

by means of a cod line, in the manner specified.

Taind, the use of a barbed instrument combined with a small line on reels, substantially adscribed, for the purpose of attaching a hawser to a whale.

No. 35,477.—F. M. RUSCHHAUPT and JOHN SCHULTE, of New York, N. Y.—Improved Perussion Powder.—Patent dated June 3, 1862.—The object of this invention, the nature of which is stated in the claim, is to obviate the objections incident to the use of full minate of mercury, phosphorus or other poisonous or corrosive substance in the manufacture of fulling nowder.

C. 4m.—The application of tanin, pyrogalic acid, or substances analogous in physical and them. in a manner as described and for the purpose set forth.

No. 35,478.—SAMUEL SLOCOMB, of East Cambridge, Mass.—Improvement in Inkstands.—Prent dated June 3, 1862.—This invention consists in providing the inkstand with an stand as air-tight joint arranged on the top of its mouth and on the under side of the supportage has been fixed in the neck by dried ink.

becoming set or fixed in the neck by dried ink.

Comm.—The improved piston and well inkstand as made with the ground or air-tight stranged on the top of the neck of the ink reservoir, and on the bottom of the flanch of

ink cup, and with the annular space between the neck and the cup as set forth.

No. 35,479.—J. W. STOUT, of Raritan, N. J.—Improvement in Harvesters.—Patent dated June 3, 1862.—The wheels upon which the frame of the machine is supported, are placed on parals and independent axles to the inner ends of which are attached wheels toothed on the inner side of their peripheries so as to gear with pinions placed loosely on each end of a nanverse shaft in the front part of the frame. To each pinion is attached a ratchet, the seth of which engage with a pawl upon the transverse shaft and cause the latter to rotate when the machine is drawn forward. In backing the machine, the ratchet slips over the laws, and the shaft remains stationary, so that the sickle does not operate. Upon the transverse shaft is a bevel wheel which gears into a pinion upon the front end of a longitudinal stati, having upon it a sleeve provided with a crank at its lower end, from which the sickle does not operate.

Claim.—The combinaton and arrangement of the frame F on the axles D D of the wheels E li. with the gearing E E H II, ratchets I I, pawls J J and bevel gears K L, substantially

wand for the purpose set forth.

No 35,490.—Harvey Mann, of Bellfonto, Pa.—Improvement in Azes.—Patent dated June 3, 1962.—This invention consists in placing the steel upon the iron in welding so that

the formershall be upon the outside of the iron at the weld, and extend up on the iron also the weld to allow of the wear coming upon the steel, and preventing the unevenness at is weld, the usual plan being to place the iron outside of the steel at the weld.

Claim.—Scarfing the steel at its edges and bending it into a U or bow shape so as to be ever the end of the blank or iron part of the axe to be welded thereon, substantially in a

manner and for the purpose represented.

No. 35,481.—L. J. WHITCOMB and W. E. PRALL, of Maineville, Ohio.—Improvement a Apparatus for Evaporating Saccharine Juices.—Patent dated June 3, 1862.—This appears is composed of a series of pans whose bottoms are all on a level, and communicate with the other by means of apertures in their dividing walls, which apertures are provided with the attached to a common stem connected to a lever, by which they can be simultaneous y and upon. Suspended from derricks on each side of the apparatus are two settling pans where can be alternately elevated, so that while the contents of one pan is settling, the other many receiving crude liquor from the evaporators. Each defector is provided with a fance, but around its plug a spiral channel, so that by turning the plug the discharging orifice may be made to tap by degrees a lower stratum of the liquor, so as gradually to decant off the examportion free from sodiment.

Claim.—First, the arrangement of a range of boiling pans upon a common level. compare cating through apertures, adapted to be simultaneously opened or closed by the compare series of deflecting valves E, constructed and operating substantially as and for the paper.

set forth.

Second, the arrangement of side defecators or settling pans H H', adapted to be elevated or depressed, and operated in the manner set forth.

Third, the decanting faucet J j j', having a provision for a gradual descent of the discharge

aperture or ventage, as and for the objects stated.

Fourth, the arrangement of the reservoir M, which receives crude sap from the mill sincharges the same into the first boiling pan by a pipe N which traverses the furnace pre-heating the crude sap, as set forth.

No. 35,482.—Jonathan White, of Antrim. N. H.—Improved Apple Parer.—Patent less June 3, 1862.—This device is composed of a furcated mandrel supported by a vibratory less or lever in such a manner as to be capable of being freely revolved by the action of a less of gears, in connexion with a stationary toothed sector, upon which the frame is moved means of which, the mandrel which holds the apple is caused not only to revolve on its about also move around in the sector of a circle, so as to cause the knife to pare the apple is piral direction from the stem to the eye. By means of a cam, the knife frame is forced apple a stop during the retraction of the vibratory lever, by which means the knife holder is project set or adjusted for the removal of one and the replacement of another apple.

No. 35.483.—C. J. Woolson, of Cleveland, Ohio.—Improvement in Cooking Stores.—Producted June 3, 1862.—This invention consists in introducing into the fire chamber of caking stoves a frame work of cast iron constructed of perpendicular and horizontal bara to dispurpose of protecting the fire plate and contracting or enlarging the fire chamber.

purpose of protecting the fire plate and contracting or enlarging the fire chamber.

Claim.—The construction and arrangement of the perpendicular and horizontal connects bars in the fire chamber of cooking stoves, in the manner described and for the purposes.

forth.

No. 35,484.—HORATIO WORCESTER, of New York, N. Y.—Improvement in Iron from for Pianos.—Patent dated June 3, 1862.—This invention consists in making the pare two pieces, one part being stationary and attached to the instrument in the usual mannet. At the part to which the strings are fastened being constructed separately with a link in the end by which it is suspended to an abutment on the stationary part, moves freely for the passes of communicating an increased vibratory power throughout the sounding board with the plate.

Claim.—The plate made in two pieces, D and F, connected by a hinge or coupling E.:

effect of both being to give a more full and complete vibration to the sounding board.

No. 35, 485.—David Zug, of Shaefferstown, Pa.—Improvement in Harvesters.—Tainfi dated June 3. 18:12.—This invention consists in the employment of pawl heads, which is a central tube fitting over the axle and entering the bore of the traction wheels. The constant of the pawl tube is secured to the axle by a pin, and revolves with it while the traction wheels move on the entering tubes of the pawl heads. A ratchet box in the hub, in course of with the pawls, serves to operate the connecting genering. When the machine is backed to wheels revolve freely in the tubes without giving motion to the genering. Below the real

cross-piece of the truck is a slotted two-flanged hanger, which is operated by a vibrating bar, so that the driver is enabled to raise the sickle bar over any obstructions and adjust it at any desired height. The outer end of the main bar which is attached to the delivery shoe is adjusted and kept parallel with the ground by means of a hinge plate having projecting knuckles or ears for the adjustment of the arm of the pulley wheel, a pintle of sufficient length entering the ears and the pulley arm. A close, perforated lug, which may be set over or under the pulley arm, forms an intermediate support, and also serves to steady the connexion of the arm on the hinge plate.

Cisim.—First, the tubulated and flanged pawl heads 61 connected with the main shaft or arie W of the machine in combination with the ratchet box b, which forms the hub of the traction wheels B, and is supported on the tubes c of the pawl heads, for the purpose and in

the manner specified.

becord, the double flanged and slotted hanger 5, constructed and applied in the manner

and for the purpose specified.

Third, the specific construction and arrangement of the hinge plate Q for adjusting the pulley N on the driving shoe L in combination with the loose and changeable perforated lug e, for the purpose set forth.

Fourth, the arrangement and construction of the T-flanged sliding screw boxes H 1 H 2 in combination with the screw F for regulating the reel shaft, in the manner specified.

No. 35, 486.—S. E. CLEVELAND, of Buffalo, N. Y., assignor to JONATHAN MAHEW and T.S.Rav, of the same place. - Improvement in Headlights for Locomotives. - Patent dated June 3, 1862.—This lamp is constructed so as to form an annular oil and wick chamber to the lower part of which is connected a tube having perforations for modifying the supply of air to the interior of the wick and flame. The annular chamber is also surrounded near its top by a perforated shield to modify the supply of air to the exterior of the flame. The anaular chamber is extended downwards by the addition of a flat tube so as to admit of the use of a rack and pinion to raise the wick. The bottom of the tube is provided with a slide which admits of ready access thereto for cleaning and trimming the lamp.

Claim.—First, the combination and arrangement of the perforated tube E, oil and wick dumber A, and perforated shield G, the said perforated tube being connected to the bottom of the oil chamber for the purpose of modifying the supply of air to the interior of the wick and flame, and the perforated shield being connected to the top for the purpose of modifying the supply of air to the exterior of the wick and flame, substantially as described.

Second, a double or compound stuffing box having two glands, the smaller within the arger, constructed and operating substantially as set forth.

Third, extension of the oil chamber downwardly, as represented by the flat tube I, in com-Enation with the rack end pinion and narrow ring for raising and lowering the circular wick, salisiantially as set forth. .

Fourth, the sliding bottom F, in combination with the perforated tube E, for opening and

cosing the mouth of the tube, substantially as set forth.

No. 35,487.—J. C. CONKLIN, of Yorktown, N. Y., assignor to G. W. DEPEW, of the same sec.-Improvement in Harrows.-Patent dated June 3, 1862.-This invention consists in tisching to an axle mounted on wheels, a series of beams extending to the rear of the axle in provided with teeth. These beams are so attached to the axle as to admit of an up-andwin motion to each beam independently of the others, and so that all of them may be turned be upon the axle and out of the way when the machine is moved from place to place.

Claim.—The application of the teeth bars of a harrow to an axle in such a manner that each on pair of teeth may move independently of the rest, substantially as set forth.

No. 35,488.—JAMES C. COOKE, of Middletown, Conn., assignor to Himself and JULIUS BUTCHKISS, of the same place.—Improvement in Breech-Loading Fire-arms.—Patent dated me 3, 1862.—This invention consists in pivoting the rear end of the movable breech piece ching and adjusting link, which is so hinged within the stock and a solid shoulder adapted which link and breech piece, that the latter moves backward out of the bore of the gun and ATOWARD below said bore when the guard of the gun is moved in one direction, and in so assing destroys the locking power of the toggle formed between itself and the link, and forms the link nearly a right angle. The breech also moves upwards and forwards into the bore be gun when the guard is moved in a converse direction, and in so moving closes the breech thegun and rests when the said movements cease, on a straight line with the link and bore of Fin so as to offer a solid resistance to the explosive action of the charge. An adjustable calcal plug with a stem is also used in combination with an adjustable tubular sleeve and th the moving breech piece, for the purpose of insuring a gas-tight joint.

Claim.—First, the operation of the breech piece so that it moves upward and forward and into the breech end of the fire-arm a short distance by the movement of the guard lover, of offers a resistance through its connexions in a line or nearly so with the bore of the barrel is moves out of the bore of the fire-arm downward and backward when the lever guard is

1772d in a converse direction, substantially as and for the purposes set forth-

Socoad, constructing the socketed broach piece B with a screw thread a and with an

aperture h so as to receive a sleeve f and admit a pin wrench to holes in the sleeve malso that the sleeve may be made to follow the plug b and support it when an outward at justment is made, all in the manner and for the purpose described.

Third, the bevelled shoulder piece d in combination with the bevelled breach piece B, at

stantially as and for the purposes set forth.

Fourth, the combination of the link G, breech piece B, links D E, and lever guard for pe forming the functions named in the first claim above, substantially as set forth.

Fifth, the combination of the link G and shoulder piece d, substantially as and for the purposes set forth.

No. 35,489.—H. S. PHILLIPS, of Westfield, Mass., assignor to Himself and G. E. Nort of the same place.—Improvement in Sash Fasteners.—Patent dated June 3, 1862.—In Invention consists in the employment of two racks, one of which is secured to the specific sash, and the other adjusted to the lower sash, operated by a cog-wheel placed between is two. By means of a pin and fastener the sashes may be retained at any desired height

Claim.—The combination of the rack 4 and cog-wheel 6, with the rack 5 and fastane:

constructed and arranged in the manner and for the purposes set forth.

No. 35,490.—J. B. Schalkenbach, of Triers, Prussia, assignor to E. Juste, of Sa Francisco, Cal.—For Piano Orchestra.—Patent dated June 3, 1862.—The nature and the

of this invention will be understood from the claim.

Claim.—The application, in combination with harmoniums, piano-fortes, or other instru ments played by keys, of percussion instruments, such as drums, cymbals, tam-tam triangle, arranged substantially as described, whereby the player is enabled to play the side percussion instruments by making use of his hand or arm while playing with the tingen a the keys of the other instruments, substantially as set forth.

Second, the use for playing the drum or cymbal of elastic sticks g g n o p, arranged at having springs j j applied to their buts, and operated by means of keys #2 #2 #2 02 #2, @

nected with the buts, all substantially as set forth.

Third, the employment of mechanism, substantially such as is represented in figures 3 and 4, and described, applied to operate upon the keys to retain the valves of the harmonium 🖷 other wind instrument, in an open condition when desired, substantially as set forth.

Fourth, the metallic tubes or funnels U U, applied in combination with the harmonium 2

other reed instruments, substantially as specified.

Fifth, the relative arrangement of the several percussion instruments, consisting of the drum, cymbal, tam-tam, and triangle, and their playing mechanism, substantially as of

No. 35,491.—B. S. STOKES, of Manchester, N. H., assignor to Himself and W. H. 🖼 WICK, of the same place.—Improvement in Mouth-pieces for Cigurs and Pipes.—Patent and June 3, 1862.—This invention consists in constructing the mouth-piece of a cigar hold: pipe with one or more passages or ducts in addition to the usual smoke duct, the said passet opening into the mouth and extending to a point where the lips close to the outer air, so 🗷 one or more currents of cool air can be inhaled at the same time with the smoke for the purpose of keeping the mouth cool while smoking.

Claim.—The construction, substantially as described, of ventilating mouth-pieces for cire and pipes, so that one or more currents of cold air may be inhaled into the mouth at the second pipes. time the smoke is received through the ducts independent of the smoke duct, for the purp-

set forth.

No. 35,492.—H. D. STOVER and E. S. WRIGHT, of New York, N. Y., assignor to said H. D. STOVER.—Improvement in Scroll Sawing Machines.—Patent dated June 3, 1862.—12 nature and object of this invention are explained by the claim.

Claim.—First, the method of hanging the saws by means of straps to the forward az! 🦛 mental ends of two walking beams or levers, the rear end of which is restrained by a space

arranged and operating substantially in the manner set forth.

Second, the method of permanently maintaining the requisite tension throughout the 32. stroke of the saw by means of a spring applied to each end of the saw, the two springs be 4 constructed, arranged, and operating as described, to compensate each other, substance. in the manner set forth.

Third, the method of regulating the amount of tension to the saw by combining with 🖘 of the tension-producing springs a screw or its equivalent, so operating upon the said as to increase or decrease its clasticity, both the springs and screw being arranged in 19.35. to each other and in relation to the moving parts of the machinery, so that the regularize the tension may be effected while the saw is in motion, substantially in the manner description of the manner description in combination with the side piece or buckle a guide block, constructed and the side piece or buckle and the side piece or

ranged as described, to admit of adjustment within an adjustable guide bed in accordance with

the length and rake of the saw.

Fifth, the employment of vulcanized India-rubber springs, the constituent parts where am constructed, arranged, and combined as described, so that the springs shall operate. virtue of compressibility in contradistinction of the tensibility of India rubber.

No. 35,493.—DWIGHT TRACY, of Worcester, Mass., assignor to Himself and J. P. Hale, of New York, N. Y.—Improvement in Spools for Sewing Thread.—Patent dated June 3, 1862.—The object of this invention is to produce a spool which shall be adapted to carry the under thread of the lock-stitch sewing machines, and at the same time be equally available for use as a common spool. It is formed of a spindle, upon which are placed heads of thin elastic material, cut so as to fit the spindle by punching the material in V-shaped parts and securing them to the spindle.

Claim.—First, uniting the parts of spools and forming the tube or barrel thereof by the

stock of the heads turned inward, substantially as described and specified.

Second, securing the heads upon the tube or barrel by pinching them between the flanges raised in the tube or barrel, substantially as set forth and specified.

No. 35,494.—W. A. BARLOW, of Elkhorn, Wis.—Improvement in Stoves.—Patent dated June 3, 1862.—The novelty of this invention consists in the combination of the several parts

named in the claim, the separate parts being disclaimed.

Claim.—The combination of the four tubes E E E E, cap C, body B, opening and cover K. door N, damper G, opening H, valve I, or, in place thereof, the self-regulator, M, with hollow base A, with partitions a a, flue F, connecting rods D, in the manner shown and described, all being arranged as and for the purpose set forth.

No. 35,495.—RICHARD MONTGOMERY, of New York, N. Y.—Improved Shield for Iron-clad Fessels.—Patent dated June 3, 1862.—This invention relates to an improvement in iron-clad ressels, for which a patent was granted to the said Montgomery, March 18, 1862, and it consists in the employment of a swinging or hinged shield formed with two exterior faces, consisting each of a truncated triangle with their faces inclined to each other in such a manner as to meet at the line of their axis of motion, the edges of the shield meeting the flaring sides, or nearly so, of the orifices in the side of the ship, thus covering the openings in the hollow takes or conductors described in the patent above referred to.

Claim.—A shield, arranged and operating substantially in the manner set forth.

No. 35,496.—RICHARD MONTGOMERY, of New York, N. Y.—Improvement in Apparatus for Bealing Corrugated Plates of Metal.—Patend dated June 3, 1862.—This apparatus consists of a base, which forms the matrix of the die or former, made of cast or wrought iron, laving as many elevations and corresponding recesses as is necessary to receive the width of the plates of corrugated metal to be bent or curved, the upper surface to be sunk or hollowed in the centre so as to form the segment of a circle of any desired degree of curvature. Fitted to this base piece is a block or die provided with corresponding elevations and depressions moving in guides and operated by a screw.

moving in guides and operated by a screw.

Claim.—The construction and arrangement of formers so shaped and fitted to each other as to prevent the spreading or crinking of corrugated beams or plates while in the process of

being bent into curves in the manner described and for the purposes set forth.

No 35,497.—JAMES ADAIR, of Pittsburg, Pa.—Improvement in Condensers for Oil Stills.—Patent dated June 10, 1862.—The nature and object of this invention will be understood from the claim.

Claim.—First, the use of a worm chest, constructed substantially as described, immersed

in a vat or vessel of water, for the purposes set forth.

Second, causing the oleaginous vapor to be condensed to pass through a zigzag passage, one side of which is a water surface, in order to secure a more rapid condensation and to that the condensed fluid to be drawn off at different points in the manner described.

Third, so constructing the worm chest of the condenser as to separate the different qualities of oil by partitions, which the condensed fluid cannot pass, but which present no obstacle to the flow of the uncondensed vapor and gas through the worm, for the purpose set forth.

Fourth, admitting the cold water in a shower into the worm chest at its rear end by a perferated pipe, through which the gas and uncondensed vapor are compelled to pass in their ci: from the condenser, substantially as and for the purpose described.

No. 35,498.—J. R. AGNEW, of Mercersburg, Pa.—Improvement in School Globes.—Patent cated June 10, 1862.—This invention consists in the employment of textile fabrics, strengthened, it becessary, by means of metal wire, in the manufacture of globes for schools, &c.

Claim.—A globe made of textile fabrics either alone or combined with and strengthened, i desired, by wire netting or leather, substantially in the manner and for the purposes described

No. 35, 499.—A. G. BRADFORD, of Freeport, Ill.—Improvement in Chain Pumps.—Patent dated June 10, 1862.—This invention consists in the employment of a series of cylindrical blocks provided at each end with a loop, which loops are connected together by rings so as to form an endless series of buckets.

Claim.—The combination of the buckets with the handles and connecting rings, when used

for the purpose of elevating water or other fluids, substantially as specified.

No. 35,500.—S. R. Brann, of Hillsboro', Ill.—Improvement in Dampers.—Patent dated June 10, 1862.—This invention consists in connecting the expansion rod with the damper by means of a double crank shaft and spring in such a manner that an expansion of the rod beyond a certain degree exerts no injurious influence on the connexion or on the damper, and that when the damper is once closed and the rod continues to expand, the entire strain exerted by the rod is thrown on the spring.

Cluim.—The arrangement of the spring E in combination with double crank shaft B damper A, rod D, and stove-pipe or flue C, all constructed and operating substantially in the

manner and for the purpose shown and described.

No. 35,501.—H. L. and C. P. BROWN, of Shortsville, N. Y. —Improvement in Grain Drills.—Patent dated June 10, 1862.—This device is designed to be applied to an arrangement of flanched disks for distributing the grain, for which a patent was granted on November 4 1851, to Foster. Jessup, Brown & Brown, and the invention consists in a method of regulating the capacity of the distributing orifice or discharge passage described in the said pates. The disks are so constructed as to operate in connexion with a square or many-sided shaft.

Claim.—First, the arrangement of the flanched disks B C, circular channel s, and aljustable gauging device E, substantially in the manner and for the purpose described.

Second, the arrangement of the flat-sided shaft D, disk C, with inner hub c, and stationary

disk B with box b, sub-tantially in the manner and for the purpose described.

Third, the arrangement of the cut-off F and outer extension of the box b in combination with the inlet orifice f, substantially in the manner and for the purpose described.

No. 35,502.—N. T. BROWN, of Ononwa, Iowa.—Improvement in Horse Rakes.—Pateri dated June 10, 1862.—Fitted transversely to the back part of a frame, and turning freely in the same, is a rake head provided with teeth projecting from each side. Passing through the rake head, at right angles to the teeth, are two bars, one of which rests upon a slide secured in grooves in the frame, so as to be capable of being moved forward or back by means of a lever and connecting rod. These bars serve to keep the teeth in a position to gather up the hay, and when a sufficient quantity is collected the slide is drawn forward, thus releasing the bar and allowing the rake to turn half a revolution and discharge the hay. The slide is then again pushed back.

Claim.—The combination of the bars B' B' with the straight rake teeth e, rake best a slide D, rod E, slotted lever G, and reversible lever H, all in the manner and for the purpose

shown and described.

No. 35,503.—W E. Browne, of Valley Falls, R. I.—Improvement in Explosive Projectiles for Ordnance.—Patent dated June 10, 1862.—Upon the exterior of the projectile are formed a series of longitudinal recesses for the reception of the expanding wings, which are attached to the same by a pin at their rear ends, and so arranged as to cause, when opened a rotary motion to the projectile after its discharge from a smooth bored gun. In one or more of the recesses is provided a nipple with a vent to the central cavity which contains the charge of gunpowder, a percussion cap being applied to each nipple for the purpose of effecting the explosion of the projectile.

Claim.—First, the arrangement of the expanding wings DD to swing from recesses in the sides of the body of the projectile upon pins c c, arranged obliquely to planes passing

through the axis of the projectile, substantially as and for the purpose set forth.

Second, the combination of one or more expanding wings DD, attached to the body of the projectile, and one or more nipples, or their equivalents, provided on the said body for the reception of percussion caps or other percussion priming, whereby the said wings are made to constitute hammers for the explosion of the percussion priming, substantially as specified.

No. 35,504.—T. J. CAMPBELL, of Lincoln, Ill.—Improvement in Automatic Revolving Ordnance.—Patent dated June 10, 1862.—Over the revolving cylinder to which the barrel is secured is supported, by means of a puley, a capping belt formed of an endless belt having holes or cavities into which are inserted percussion caps to fit the nipples on the cylinder, so that as the latter revolves the caps are brought in succession upon the nipples. The swab and rammer are attached to a sliding frame, which supports a reservoir into which the coling and lubricating substance is placed and conveyed through the shank of the swab into the cylinder at the same time the rammer is forcing the charge into another chamber which is in a position to receive it.

Claim.—First, the application of the copying belt, operated by the action of the cylinder B. Second, the lubricating box o, in combination with the reciprocating swab m, and ramed

s, substantially as set forth.

No. 35,505.—P. S. CARHART, of Collamer, N. Y.—Improvement in Cultivators.—Patent dated June 10, 1862.—This invention consists in attaching the draught pole to the front bar of the frame, in such a manner that the latter will be supported by the draught pole when in use. The rear end of the pole is attached to the back bar of the frame by means of a rack, to which is fitted a toothed lever, by means of which the rear end of the tongue may be raised or lowered, and thus regulate the depth of penetration of the teeth in the ground.

Claim.—The means, substantially as shown and described, for regulating the depth of the enetration of the teeth B of the implement in the ground, to wit, the attaching of the raught pole C to the front bar a of the frame by a bolt d, and having its back end connected the back bar a of the frame by a rack-plate E, lever F provided with a toothed segment i nd an adjustable pin j, which fits in notches f in the plate E, to operate as set forth.

No. 35,506.—GARDNER CHILSON, of Boston, Mass.—Improvement in Parlor Stoves. atent dated June 10, 1862.—The grate in this stove is provided with journals that rest upon earings so constructed as to admit of the grate being removed from them, and also to have be end of its front bearing inserted in a grate rotator which is entirely separate from the rate, and rests in a socket made within a frame in the mouth of the ash chamber, through thich frame the rotator projects, its projecting part being made star-shaped, so that a key say be applied to effect the movement of the grate. Within the cylindrical case is an oven aving flues in contact with three of its sides, which flues lead from the fire chamber to a bund chamber over the oven. The lower part of the oven is made of concavo-convex form owneds the fire chamber, for the purpose of facilitating the application of a cover, strengthming the oven plate and preventing it from being warped.

Claim.—The separate grate rotator as made, not only with a grate attachment or device or connecting the grate with it, but with a head, or its equivalent, for receiving a key or

Also, the construction of the ash-pit mouth frame with a socket for the reception of the said rate rotator, made separate from the grate, and also in manner and so as to operate the rate, as specified.

Also, the arrangement of the conical enlargement ring, the fire chamber, the oven, and the

the spaces about the sides and top of the oven.

No. 35,507.—G. F. J. COLBURN, of Newark, N. J.—Lamp Reflector and Chimney Proustal tube, serving as a shield, having attached at its lower portion a piece of metal acting . s a reflector and shade, and so arranged as to reflect the light in any required direction. Claim.—The arrangement and construction of a metal shield and reflector for lamp chim-

wys in the manner and for the purpose specified.

No. 35,508.—ASAHEL COOLEY, of Chicago, Ill.—Improvement in Pumps.—Patent dated fune 10, 1862.—A top piece is attached to the cylinder so as to form an annular chamber, thich communicates with a series of induction passages at the side of the cylinder, and which is arranged a ring valve. The piston is provided with a series of passages, comnunicating by means of annular passages with a circular valve-chamber, within which is a ing valve. Attached to the piston, and communicating with the above-named valve-chamer, is a hollow piston rod, which passes loosely through the top piece and extends to the op of the well. As the pump is operated slowly or rapidly, any jar or back flow of water is revented, the ports being closed promptly by the weight of the corresponding ring valves then the movement of the piston is reversed.

Claim.—First, the manner described of felling the cylinder above the piston, to wit, by be employment of the induction ring valve c c surrounding the bore of the cylinder at the op of the same, the posts e c c e c e of which being so arranged as to direct the water underwash said valve c c, or be closed by the falling of the same, substantially as described.

Second, the eduction passages lrst, or their equivalent, so constructed and arranged as O receive the water above the piston, and convey it underneath and through the eduction raive i', substantially as described.

Third, the tubular piston rod F and eduction valves i and S, arranged and operated substantially as described.

Fourth, the parts g C and d d arranged substantially as described, when combined with a pump cylinder and the tubular piston rod F for the purposes set forth.

No. 35,509.—F. W. DAHNE, of Swanses, Glamorganshire, Great Britain.—Improvement in Extracting Copper from Ores. - Patent dated June 10, 1862. - Patented in England, Sept. 26, 1-60.—The nature of this invention is set forth in the claim.

Claim.—The roasting of a mixture of copper ore with sulphate of iron so as to convert the copper into sulphate and the iron into peroxide, and then separating the sulphate of copper

by axiviation, as described.

No. 35,510.—J. S. DE HAVEN, of North Springfield, Ohio.—Improvement in Grain Drills.— Parent dated June 10, 1862.—This device consists of a cylindrical tube, to the lower front Part of which is riveted a steel tooth of the form shown in the engraving. In the lower end of the tube, and extending across its opening, is a bolt which serves to spread or scatter the grain as it falls through the tube over the space formed by the tooth.

Claim.—The combination of the inclined and tapering metal tube A with the peculiarly-shaped metal tooth, as represented, and the spreading bolt I, constructed, combined, and

arranged in relation to each other as shown and described.

No. 35,511.—Henry Evans, Jr., of Baltimore, Md.—Improvement in Apparatus for Steaming Oysters.—Patent dated June 10, 1862.—This invention consists in the employment of a box provided with an opening and with rails upon its floor, upon which rails run small cars filled with oysters. The bottoms of the cars are constructed of bars having spaces between them to allow of steam passing up among the oysters in the box. A lateral transportable is arranged to run upon rails in an opening at right angles to the steam-box, so that is soon as a load is steamed it may be removed and a series of cars be successively run into the steam box and quickly removed.

Claim.—In combination with a steam box, the cars and tracks, constructed and arranged

substantially as described.

No. 35,512.—J. W. Fiester, of Winchester Ohio.—Improvement in Cooking Apparatus.—Patent dated June 10, 1862.—This apparatus is so arranged as to be readily applied to at ordinary house fire grate, where it is designed to make one fire answer the several domesticuses for cooking and warming the apartment. The claim and engraving explain the inventer

Claim.—The combination and arrangement of the top plate E, middle plate D, lower pure C, and baker B, so as to form an improved apparatus for cooking before grates, constructed

and operating substantially in the manner and for the purposes set forth.

No. 35,513.—F. G. FORD, of New York, N. Y.—Improvement in Window Sask.—Paters dated June 10, 1862.—The sashes are secured in the frame by means of fixed and movableads, the latter being held in position above by spring catches so as to admit of their really removal. The cords by which the weights are suspended, are connected to the sashes by means of hooks placed in cavities in the edges of the sash, so that they may be easily removal. In the lower rail of the upper sash is secured a nut corresponding with a socket in the unit rail of the lower sash, within which socket a screw bolt turns freely, guided by a pin projecting from the inside of the side socket, so that as the sash is raised, the screw bolt is retracted within the socket when the sash is to be raised or lowered, and enter the nut when the sash is to be secured.

Claim.—First, in the described combination with the movable beads C attaching the supposion cords F to the sash by means of hooks H, placed in cavities in the edges of the sach

admitting of the ready and complete removal of the sash from the window frame.

Second, fastening the upper and lower sash together by means of a screw MOP. guided by a pin N in the socket L, so as to be retracted within the socket when the sash is to raised or lowered, and protrude from the said socket and enter and bind within the nut K when the sash is to be raised or lowered, and protrude from the said socket and enter and bind within the nut K when the sash is to be secured, all as explained.

No. 35,514.—WILLIAM FRADGLEY, of Greenbush, N. Y.—Improved Corkscrew.—Page: dated June 10, 1862.—This device is composed of a cylindrical casing, the lower page which is of a size to hold a quart-bottle cork, and the upper part is made smaller to recognition fitted snuggy to its bore, and having on its periphery a square threaded spiral grant into which fits a pin secured to the upper rim of the case. In the inner cylinder is a corresponding through it longitudinally, in which moves a hollow socket consisting of two cylinders that hold when together, by a coupling head or flange upon one, the corkscreand by a head upon the other, the handle shaft, so that, as the handle is turned, the same enters the cork, and when fully inserted the couplings become released and the further meant of the handle causes the inner cylinder to rise and draw the cork.

socket a, the pin p in the shaft with its notch f in the top of the cylinder E, the cylinder b with its groove G and pin H of outer cylinder A, the whole operating together as a con-

screw, substantially in the manner set forth.

No. 35,515.—John Gibson and Michael Heberger, of Cincinnati, Ohio.—Improver' in Hydrants.—Patent dated June 10, 1862.—This invention relates to a method of attaches a hydrant to its stock. To the leaden pipe is permanently soldered a brass elbow into whis is screwed the cock shank. Over the outer portion of the elbow is an escutcheon secund by wood screws to the stock, against the face of which is screwed a nut so as to draw to shoulder of the elbow against the back of the escutcheon, and thus secure the parts ready a place. Between the cock shank and the elbow is a gasket for securing a water-tight.

place. Between the cock shank and the elbow is a gasket for securing a water-tight and claim.—The combination of the elbow C c, screw-shanked cork D, annular gasket scutcheon E c, and clamp nut F, all constructed, arranged, and employed in the manner at

for the purposes set forth.

No. 35,516.—SIMEON GROVER and STEPHEN PUTMAN, of Newton, Mass.—Improvement in Coal Sifters.—Patent dated June 10, 1862.—This invention consists in the employment is two cross-pieces or a rim C suspended from a rim A, adapted to fit the top of an ordinary barrel, upon which cross-pieces may be set a common sieve containing cinders to be suited. A cover is placed over the top and motion is imparted to the whole by means of a handle jointed to the rims.

Claim.—The sifter, composed essentially of the enclosing and supporting rim A, the suspension cross or rim C, and shaking handle D, with their appendages, constructed and arranged so as to be used in connexion with a common cask or barrel and coal sieve, substantially as specified.

No. 35,517.—J. C. Hall, of Cincinnati, Ohio.—Improved Sofa convertible into a Table, Trunk, Cot, &c.—Patent dated June 10, 1862.—The object of this invention is to provide an article of furniture that may be readily converted into several forms as designated in the claim for the use of persons camping out or occupying confined apartments.

Claim.—The arrangement of box A a a', seat G, ledge G', and hinges E, hinged and folding back B B' F, the whole forming a convertible cot, settee, desk and table, as described.

No. 35,518.-A. G. HECKROTTE, of New York, N. Y.-Improved Washing Machine. Patent dated June 10, 1862.—This invention consists in the combination of a series of rollers forming a concave and an open cylinder formed of slats, arranged in such a relation to each other that the clothes placed between the two at one side of the tub, are rubbed and transferred with a constantly increasing pressure until they reach the lowest point of the tub, when they are carried up the opposite side and over the rubbing cylinder. The journals of the cylinder shaft are provided with spring bearings to enable them to yield to any undue pressure.

Claim.—The combination of the rollers b, the cylinder D, and the spring bearings i, when

constructed and arranged substantially in the manner described and for the purpose specified. Also, the application of the rubbing cylinder when constructed with fixed revolving rollers, as described, in combination with the concave of rollers b, as set forth.

No. 35,519.—V. W. HOUCK, of Buffalo, N. Y.—Improvement in Crozing Machines.—Patent dated June 10, 1862.—This invention consists in the employment of two endless chains composed of jointed links placed upon drums with which they revolve. The upper surface of these links, upon which the stave is laid, forms an arc of the inside longitudinal curve of the barrel. The journal boxes of the drum shaft are made yielding by being hinged at one and to the main frame and resting upon a coiled spring at the other end, so as to adapt the machine to chamfer and croze staves of different thicknesses. The former for each end of the stave is composed of three small wheels supported in an appropriate hanger, which is made scjustable horizontally and vertically upon a slotted cross-piece.

Claim.—First, the endless revolving bed composed of the jointed links D, the said links being so constructed that a transverse surface line will correspond to an arc of the longitudinal curve of the barrel, or nearly so, for the purposes and substantially as described.

Second, supporting the shalts B'. and hence the drums B, in yielding journal boxes 62 in combination with the described endless revolving bed, for the purposes and substantially as

Thid, wheel formers made adjustable horizontally on the cross-piece O, and placed on a line corresponding to the longitudinal curve of the barrel, for the purposes and substantially as set forth.

No. 35,520.—H. N. HOUGHTON, of Halifax, and C. H. DENISON, of Brattleboro', Vt.—
Improvement in Shells for Rifled Ordnance.—Patent dated June 10, 1862.—This invention consists in making the screw bolt which connects and holds the several parts of the projectile logether hollow, so as to serve as a fuse tube which may be fitted at the end with a percussion cap for exploding the projectile.

Claim —The employment of the screw bolt F, applied as and for the purpose specified as a fuse tube, substantially as described.

No. 35,521.—C. T. JAMES, of Providence, R. I.—Improvement in Explosive Shells for Ordnance.—Patent dated June 10, 1862.—This invention consists in extending the shell for ion or magazine of the projectile down toward the base of the latter, making the maga-En- or shell portion in the shape of a prolate spheroid, in combination with a surrounding, rpan-ible ring or packing, so arranged as to make the external figure of the base or lower calf of the projectile cylindrical.

Claim.—In combination with the conically-shaped base of the shot or hard metal, an up unible base piece of soft metal, arranged to operate substantially as described for the

12 po-e set forth.

No. 35,522.—E. A. JEPPREY and J. D. QUACKENBUSH, of Corning, N. Y.—Improvement * Pumps — Patent dated June 10, 1862.—A reference to the description and drawings will

* nece-sary for a proper understanding of this invention.

Claim.—First, the combination and arrangement of the cylinder A with the parts con ti-ling the valve chambers D D, and with the packing chamber H, so as to secure the suction ad discharge pipes G G and F F in sockets in their respective parts, substantially in the samer and for the purpose shown and described.

Second, the India-rubber rings b b and perforated screw rings d d, so constructed and ranged as by their compression to pack not only the piston, but the joints a a of the cylin-Digitized by GOOGLE

er, substantially as shown and described.

Third, the passage K for admitting water to the stuffing box of the piston rod and maintaining it there under the discharge pressure of the pump, substantially as and for the purposes set forth.

Fourth, in combination with the foregoing, the perforated tube p and gasket r for excluding

water from entering the cylinder from the stuffing box, substantially as set forth.

No. 35,523.—George Jones, of Peekskill, N. Y.—Improvement in Sask Fastener.—Patent dated June 10, 1862.—This invention consists in the employment of an inclinal plate secured to one of the sashes, upon which are parallel notches extending horizontal across the plate. Upon the other sash is a yoke or clasp which catches into the notches. The said plate, and securely fastens the sashes together so as to prevent their rattling, &c.

the said plate, and securely fastens the sashes together so as to prevent their rattling, &c.

Claim.—The application of the yoke, swinging on a hinge, to the inclined plane, provided with notches, thus producing a perfect window-sash fastener, and securing the effects &c.

scribed.

No. 35,524.—Horatio R. Jones, of Addison, N. Y.—Improvement in Percussion Caprimer for Fire-arms.—Patent dated June 10, 1862.—This invention is designed as an improvement to be applied to a capping tube for which a patent was granted to E. D. Seely October 29, 1861, and it consists in placing in a recess, at the rear end of the tube, a spring catch, so that when the trough is inserted it will be held firmly in its place.

Claim.—The spring catch attached to the rear end of the capping tube to hold the trues

or slide in its place, substantially as and for the purposes set forth.

No. 35,525.—O. S. Judd, of New Britain, Conn.—Improved Means of Extinguishing Cas Lights.—Patent dated June 10, 1862.—This invention consists in the employment of a spring applied to turn the cock in the pipe of a gas lamp to extinguish the light, the side spring being controlled by a clock movement so as to shut off the gas at any given time. Attached to the cock is a sector, from which a cord passes to a wheel upon an arbor provide with a coiled spring. The act of moving the cock to turn on the gas winds up the spring and at the same time causes an arm to catch under a lever latch, where it remains until scale upon by a cam which releases the arm, when the spring turns the cock and shuts off the gas

Claim.—The sector c applied to the gas cock and moved by a spring, or its equivalent, a shut off the gas, when the latch lever g is disconnected by the clock mechanism, as and its

the purposes set forth.

No. 35,526.—J. W. KINGMAN, of North Bridgewater, Mass.—Improved Mode of Maine Buildings Water-proof.—Patent dated June 10, 1862.—The nature of this invention is a

plained by the claim.

Claim.—The new mode of rendering surfaces, &c., water-proof, the same consisting is applying, by rubbing to such surfaces, thin sheets of fibrous materials, first coated with such a paste or cement as will permit water-proof liquids to pass through, and then satural ing them with such water-proof liquids as will pass through both the cloth and the past substantially as described.

No. 35,527.—SYLVESTER LOUIS, of Rochester, N. Y.—Improved Mode of Treating Oils and Fats for rendering them more Useful for Burning in Lamps, Lubricating Machinery as ether Purposes.—Patent dated June 10, 1862.—The object of this invention is the production of an improved quality of oil for burning in lamps or for lubricating machinery, by combing any kind of oil or fat, whether animal or vegetable, with naphtha or benzole, and will an agent such as "annatto," previously prepared, which essentially deodorises those substances, and by which combination they are rendered less volatile, and become non-explore under ordinary circumstances.

under ordinary circumstances.

Claim.—The treatment of vegetable and animal oils and fats by the use of bearsis of maphtha and annatto combined, substantially in the manner and for the purposes described.

No. 35,528.—LAFAYETTE LOUIS, of Buffalo, N. Y.—Improvement in Pienes with Meletra Attachment.—Patent dated June 10, 1862.—This invention relates to a method of arrapting a melodeon tube-board, reeds, and swells above the keys and below the sounding board of piano-forte in a manner to obtain the effect of two banks of keys or two separate institutions are the treadle, is so combined and arranged with a melodeon tube-board and piano-forts in enable the performer instantly and at pleasure to connect the melodeon tube-board in enable the performer instantly and at pleasure to connect the melodeon tube-board in piano-forte. A compound rotary bellows combining the suction and pressure principles are both acting in separate apartments in the bellows, is also combined with the melodeon salpiano-forte, by which the air, after acting upon the melodeon reeds, may be confined in bellows or forced out at pleasure, thereby regulating the degree of air pressure upon the melodeon, and also using the air which has acted upon the melodeon reeds for neutralization and controlling both the suction and pressure power of the bellows, for the purpose of irrecasing or diminishing the power of the tone.

Claim.—First, the arrangement of a melodeon tube-board (including reeds and swells) above the keys and below the sounding-board of a piano-forte, in the manner and for the purpose and substantially as described.

Second, so combining and arranging a melodeon tube-board with a piano-forte as that the performer can instantly and at pleasure disconnect the melodeon tube-board from the piano-

force keys, in the manner substantially as set forth.

Third, the combination and arrangement of the tremolo G with the melodeon tube-board

E and piano-forte, substantially as described.

Fourth, the combination of a compound rotary bellows with a piano-forte and melodeon, the bellows being provided with a valve I² for regulating the degree of air pressure upon the melodeon reeds, substantially as set forth.

No. 35,529.—W. W. LYMAN, of West Meriden, Conn.—Improved Fruit Can.—Patent dated June 10, 1862.—The stopper is formed with a groove in its edge to receive and hold in place an elastic ring, and when inserted in the can after the heated contents are placed therein, is drawn down into the can as its contents become cool. In order to open the can, a sharp-pointed instrument is inserted between the ring and stopper to form openings for the admission of air to facilitate the removal of the stopper.

Claim.—Producing the openings e, in combination with the stopper a and ring b, substan-

tially in the manner and for the purpose described.

No. 35,530.—E. A. McALEER and J. SHIVELY, of Canton, Ohio.—Improvement in Weighing Fazzets.—Patent dated June 10, 1862.—To one end of a barrel or hogshead is attached a plate provided with a spigot and a dovetailed groove, in which works a sliding valve. The tent upper part of this valve is perforated to receive the hook of a scale platform. The scale-beam his loosely at its front end in an opening in one side of the upper part of the sliding valve, and turns on a pivot in a lug cast on one edge of the plate. In the rear of the sliding valve is a valve for regulating the flow of molasses. The jug or vessel to receive the molasses being placed upon the platform, the required amount to be drawn is indicated by the molasses in the jug causes the valve to fall and close the spigot.

Claim.—First, the combination with valve C of the platform D and peculiarly constructed

weighing scale beam E, substantially as set forth.

Second, the combination of the rear valve e, main valve C with the spigot, substantially as and for the purposes set forth.

No. 35,531.—R. W. McClelland, of Springfield, Ill.—Improvement in Hubs and Journals for Carriage Wheels.—Patent dated June 10, 1862.—The hub is composed mainly of a four and rear section, the front section having a recess to receive the tenons of the spokes which are driven in radially so as to brace against each other. The front section has also a shoulder, and beyond it a male screw fitting into a corresponding recess, and female screw in the rear section, so that when the two are screwed together, their flanges securely clamp the spokes, and a spoke may at any time be removed and another inserted without disturbing the other portions of the wheel. In the point and heel of the hub are recesses for the reception of a box composed of three or more sections of any suitable metal, behind which sections are placed adjusting screws for the purpose of setting them up as they wear away squist the bearings of the journal.

Claim.—First, in connexion with a cast-iron hub made in two sections, the driving in of the spokes radially into one of the sections, in combination with the shoulder, recess, fianges and screw threads, to brace and bind the two sections to each other and to the arched part of

the spokes, substantially as described.

second, in combination with a cast-iron hub, sectional, adjustable, and removable metal burs to take the bearings of the journal, substantially as and for the purpose set forth.

Third, in combination with sectional adjustable boxes in the hub, the removable bearings on the journal of the axle, substantially as and for the purpose set forth.

No. 35,532.—J. W. MERRILL and J. H. ROWE, of Boston, Mass.—Improvement in Feet Werning Apparatus.—Patent dated June 10, 1862.—This invention consists of a box open in front and formed with two separate compartments for the reception each of a foot case or boder, which latter consists of three separate parts connected together by means of hinges. Their inner surfaces are covered with fur or other suitable substance. Applied to opposite sizes of each compartment are springs which bear against the cushioned part to press them in contact with the feet.

Usim.—The separate foot case or cases as combined with and applied to the stand, and make substantially in the manner and so as to operate as described.

No. 35,533.—W. O. B. MERRILL, of Philadelphia, Pa.—Improvement in Coal-Oil Burners.—Patent dated June 10, 1862.—This invention consists of a metal plate provided with projections inclining towards the wick and arranged within the perforated casing of a coal oil lamp burner for the purpose of directing a supply of air to the sides and base of the flame.

Claim.—The smoke consumer, composed of a metal plate with the flat projections f f and turned-up projections d d', when arranged within the perforated casing A of a coal-oil lamp burner, as and for the purpose set forth.

No. 35,534.—W. O. B. MERRILL, of Philadelphia, Pa.—Improved Coal-Oil Lamps for Railway Cars.—Patent dated June 10, 1862.—The chimney of this lamp is composed of glass, having a hollow metallic base firmly secured to it, and also a metal tube at its upper part, each of which is provided with a flanged projection, by which they may be attached to the side of a car or other object. On the lower edge of the metallic base piece is a flange, in the opening formed by which fits a projecting portion of the reservoir, and upon the latter rests a hollow cap to which is secured the dome, having at its top the usual oblong opening.

Claim.—First, the chimney composed of the hollow metal cap B, glass tube A, and metal case C, with the projections E E', or their equivalents, for the attachment or suspension of the chimney to the side or roof of a car or to any other object, in combination with the detachable reservoir D and its burner.

Second, the projections s on the reservoir, in combination with the openings m m on the flange i of the base C, the spring c, its rod b, and the stop a.

Third, the combination and arrangement of the base C, flange c, perforated flange i, and perforated cap H.

No 35,535.-W. O. B. MERRILL, of Philadelphia, Pa.-Improvement in Lamp Chimneys.-Patent dated June 10, 1862.—This chimney is composed of a metal base with a projection adapted to the burner of a lamp, and two or more plates of plain glass confined by longitudinal grooved or recessed metal ribs or plates, which plates or ribs are hinged to the metal base and confined together at the top by means of a detachable cap, so that by the removal of the cap, one or more of the glass plates may be removed and replaced at pleasure.

Claim. - A lamp chimney, composed of a metal base A, with an annular projection adapted to the burner of a lamp and two or more plates of plain glass confined by metal ribs or plates.

substantially as and for the purpose set forth.

Also, hinging one or two more of the said plates or ribs to the base and confining the same at the top by the attachable cap G, as specified.

No. 35,536.—Franklin Miles, of Rochester, N. Y.—Improvement in Fanning Mills. Patent dated June 10, 1862.—To the rock-shaft, which extends from side to side of the mill between the upper and lower shoes, is attached a metal bearing piece provided with two semicircular projections on its lower edge, resting in corresponding recesses in a plate attached to the side of the machine for the purpose of producing a sudden concussion of the shee at each horizontal vibration so as to prevent the sieve from clogging. The grass seed is separated before being exposed to the fan blast by a sieve at the point where the grain is taken from the hopper upon the shoe, in a receptacle, whence it may be discharged through an aperture in the same. The size of the opening in the hopper is regulated by a sliding feed board, to which is attached a guide stem or handle provided with a long flat spring on its under side, both passing through a portion in the frame of the machine. both passing through a mortise in the frame of the machine.

Claim.—Compounding the motion of the shoe or shoes, when shaken horizontally, by the addition of the abrupt vertical vibration or jar, by means of the double bearing H of the rock-

shaft c and the sockets g g, substantially as and for the purposes described. Also, the combination and arrangement of the grass-seed box Q, hopper S, sieve m, and

fan F, substantially as and for the purposes described.

Also, the feed board L, provided with the guide stem T and spring z, when used in combination with the hopper for adjusting and holding the same, substantially as set forth.

No. 35,537.—N. W. NORTHRUP, of Greene, N. Y. —Improvement in Railroad Chairs and Rails.—Patent dated June 10, 1862.—This invention consists in forming the rail with similarly shaped flanges upon each edge and a rib at the centre adapted to fit corresponding recesses and shoulders in the chair. The chair is made in two parts or jaws, one of which is stationary and extends to the surface of the rail, and the other is made to fit in between a projecting portion of the stationary part and the rail, the upper portion resting against the under side of the rail flange.

Claim.—A double-headed rail with the ribs or flanges and shoulders, with the chair composed of the two jaws, grooves, flanges, slots, and wedge-shape movable jaw, combined as

specified and for the purposes set forth.

No. 35,598.—J. H. NORTON, of Boston, Mass.—Improvement in Gas Regulators.—Patent dated June 10, 1862.—This apparatus is composed of two parts or bowls, one above the other. In the upper part is a quicksilver trough and inverted cup, and at the bottom of the same is cast a projecting cylinder having a series of nothers on its edge, a central hole opening through the bottom into the chamber above here is a projection of the same is a projecting cylinder having a series of nother part is a given by the hardon of the same is a projection. the bottom into the chamber above. In the lower part is a chamber, to which the inlet pipe is connected. From the centre of the inverted cup in the upper chamber is suspended a rod secured by screw nuts, and having attached at its lower end a cup M filled with quicksilver. By adjusting the said nuts, the cup M is brought into a position corresponding with the greatest probable pressure to be maintained in the upper chamber, so that the proper amount of opening through the notches above mentioned may be provided to supply the amount of gas required by the number of burners in use at one time.

Claim.—The chamber G, into which the gas is poured from the inlet pipe H, in combination with the valve f, communicating with the pressure chamber D, when said valve is commanded by the quicksilver cup M suspended directly from the inverted cup C, substantially as

No. 35,539.-M. P. NORTON, of Troy, N. Y .- Post Office Way-Bill Envelope.-Patent dated June 10, 1862.—This invention consists in making a post office way-bill envelope with an opening at one end only to receive letters for transportation, and with a way-bill on the outside of the envelope, and combined therewith by being printed thereon.

Claim.—A post office way-bill envelope, constructed substantially as and for the purpose

described and set forth.

No. 35,540.—JONATHAN PARKER, of Biddeford Mo.—Improvement in Churns.—Patent dated June 10, 1862.—This invention consists in making the dasher with orifices so inclined and arranged within the churn as to produce spiral currents in the cream as the dasher is moved up and down.

Claim.—The dasher, as made, with perforations arranged at an inclination to its faces, to operate in manner substantially as specified.

No. 35,541.—Moses Pond, of Boston, Mass.—Improvement in Heaters.—Patent dated June 10, 1362.—In the dome of the furnace are introduced one or more suitably prepared pipes so armsged as to convey the external air up into the dome and over the fire, where it becomes heated, and thence into the air-chamber, where it mingles with the hot air which has been thrown off by radiation. The pipes are so constructed and connected with the furnace as to provide for their contraction and expansion, and obviate the danger of displacement, and also to prevent the gases and smoke from escaping around the pipes into the air-chamber.

Claim.—The upper joint of the pipe, consisting of the cup or its equivalent with the sand, and the collar N with its elongated slots K K', and the rim projecting into the cup or its equivalent, all constructed substantially as above specified and operating as described, so as to allow the expansion and contraction of the pipe, and at the same time by making the joint air-tight to prevent gas and smoke from escaping into the hot-air chamber.

No. 35,542.—PAUL PRYIBIL, of New York, N. Y.—Improved Tension Regulator for Sewing Machines.—Patent dated June 10, 1862.—This invention consists in the arrangement of a pulley with a long conical hub (the pulley being rotated by the action of the needle thread) in combination with a scrow spindle acting on the conical hub in such a manner that, during the operation of sewing, and consequent decrease of the bobbin thread in the shuttle, the pulsy, by the action of the screw, assumes a gradual downward motion, thereby bringing by degrees thicker parts of the conical hub opposite the spring pad, and causing a corresponding increase in the tension of the needle thread. The tension regulating pulley is connected with the screw spindle by an elliptical sleeve, which is attached to a spring, and the fout portion of which is left smooth, while that portion of the same which is forced by the pnng against the screw is furnished with a screw thread in such a manner that by pulling back said spring, the nut, and with it the pulley, is thrown out of gear with the screw thread on the spindle, and can be moved up and down on the same at pleasure. The thread in the lower part of the said nut is cut away and a recess and shoulder provided in the screw spindle in such a manner that the tension regulating pulley can be rotated on the screw spindle

whilst the screw threads are out of gear, and hence are not liable to become injured or worn.

Claim.—First, the arrangement of the friction pulley D with the conical hub E in combiration with the screw spindle G and spring pad F, constructed and operating substantially

■ and for the purpose specified.

Second, the arrangement of the elliptical nut d on the spring H, in combination with the

Erew spindle G and pulley D, substantially as and for the purpose described.

Third, the recess and shoulder on the scrow spindle G in combination with the lower part g of the nut d, as and for the purpose set forth.

No. 35,543 .- M. A. RICHARDSON, of Sherman, N. Y. - Improvement in Machine for Working Butter.—Patent dated June 10, 1862.—This apparatus consists of a tub, to which a rotating motion is communicated from a shaft outside of the tub. Within the tub is a butter worker, the upper end of which passes through a jointed extension arm, and is provided with a handle, by means of which the worker is made to revolve. The lower portion of the worker is formed with three wings forming concavos, the edges of which press against the sides of the tub and out the butter into elongated rolls. Attached to a standard upon the platform is a bar, having ever attached to it, provided with a spring scale for weighing the butter.

Claim.—First, the employment of the tub G, worker H, and shaft D with the arm C and have the standard upon the platform is a bar, having the standard upon the platform is a bar, having the standard upon the standard

linged extension C', the several parts being constructed and arranged to operate in the

manner and for the purpose specified.

Second, the use of the lever a upon which the bottom of the shaft D is situated, or in which it has its bearings, for the purpose of throwing out of gear the lower end of said shaft, as is in y set forth.

Third, the use of the bar L, lever M, and scale N when used with the standard B, as and

for the purpose specified.

No. 35,544.—MICHAEL RITNER, of Vincennes, Ind.—Improvement in Sabot for Projectiles for Rifled Ordnance.—Patent dated June 10, 1862.—The nature and object of this invention

are explained by the claim.

Claim.—A hollow sabot of vulcanized India-rubber, constructed substantially as described, and applied in the rear of a cannon ball or other projectile without enveloping the same or being attached thereto; constituting a cushion to receive the percussive force of the exp. sion, and adapted to expand by the pressure of the gases so as to effectually prevent ther escape.

No. 35,545.—HENRY RUTH, of Summerfield, Ill.—Improvement in Corn Planters.—Psent dated June 10, 1862.—In front of the rollers is arranged a curved metal plate having teeth upon its edges for breaking the lumps of earth in pieces. The rollers and plates an arranged in a frame so as to be raised and lowered by means of a crank shaft, when necessary. In the bottom of the hopper box is a longitudinal groove in which the dropping vave is arranged. In the centre of the valve at one edge is fixed an arm which is operated by a cam upon the main axle to open the valve one or more times during the revolution of the axle.

Claim.—First, in combination with the rollers L the toothed, curved plates M arranged

in a hinged frame as described.

Second, the cam F in combination with the valve E, constructed and arranged as described.

No. 35,546.—J. L. SATER, of Cincinnati, Ohio.—Improvement in Planting Machines.—Patent dated June 10, 1862.—Above the frame of the machine are arranged two grain beres. the opening in the bottom of each of which is closed by a portion of the periphery of an on-wardly opening hollow cylinder which is secured to a rotating shaft. The sides of the hollow cylinders are perforated for the reception of the kernels of grain to be planted. Within the upper half of each hollow cylinder is fitted a segmental block supported by a metallic strap from the frame timber. As the machine moves along, each perforation in either one of the hollow cylinders is brought over the mouth of an oblique perforation in the segmental block through which the kernels of grain pass to the conducting tubes and thence into the furrows. Claim.—The combination of the hollow, perforated, open cylinders B B with the grain

boxes A A, when the said hollow cylinders are combined with the obliquely-perforated segmental blocks D D, and the conducting tubes E E, in the manner and for the purpose sub-

stantially as set forth.

No. 35,547.—W. C. SHIPHERD, of Saratoga Springs, N. Y.—Improved Boot-Crimping Device.—Patent dated June 10, 1862.—To the under side of a sliding frame is attached a boot tree, at the rear edge of which are a series of notches directly back of the curve of the tree. The clamp is composed of two parallel metallic plates provided with notches at their upper edges similar to those in the edge of the tree. In each of the notches of the tree is fitted a nut and screw, the screw rods having clasps upon them extending down at each size of the nuts, thus clamping the latter to the tree, by which means the leather is beld in stretched or crimped state, and the tree with the leather upon it may be readily removed.

Claim.—The notches i, o, made respectively in the tree E and plates k k of the clamp G as shown, in combination with the clamp formed of the nuts p, screw rods p', and classes, all arranged as shown for the purpose of securing the crimped leather to the tree.

No. 35,548.-J. N. SMITH, of Jersey City, N. J.-Improvement in Repeating Fire-arms-Patent dated June 10, 1862.—This invention consists in the employment of a divided breedchamber, a part of the chamber serving as a charge carrier and breech-pin. The charge carrier is moved backward by a lever to a position for the reception of a charge. The movement of the lever also operates the lock and produces the feed motion; the charges when introduced into the magazine being brought forward automatically by means of two feed wheels connected by a spring. These feed-wheels have a common axle, one a cord-when fixed to the axle, and the other a ratchet-wheel moving freely. The cord from the wheel magazine through a hole and thence along the magazine where it is the charge to a fell wheel. passes through a hole, and thence along the magazine, where it is attached to a follower. that the movement of the wheels may act upon the follower and upon the charges.

Claim .-- First, ejecting the charge case laterally from the bore of a gun, through an open-

ing made in the side of the bore, in the manner substantially as described.

Second, the employment of the carrier F or its equivalent for opening the gun to introduce

the charge, substantially as set forth.

Third, the arrangement of the feed wheels M and N, the same being connected by the spring j, and forming a compound wheel for bringing forward the charges automatica. and with precision, as specified.

No. 35,549.-J. N. SMITH, of New York, N. Y.-Improvement in Coal-Oil Lamps.-Psent dated June 10, 1862.—This invention does not admit of a brief description.

Claim .- The flexible lifting cup L, constructed and operating substantially as and for the purpose specified.

Also, the combination of the flexible lifting cup L and disk J, united and arranged with

their apertures l and j j, substantially as and for the purpose set forth.

Also, the evaporating tank P, with its open aperture p, or its equivalent, substantially as described and applied to the lamp for the purpose specified; and this, whether arranged and applied as described, or in any other way combined with a lamp to produce the effects, and for the purposes set forth.

Also, the safety valves F G and K applied to the oil passages, and operating substantially

in the manner and for the purposes described.

Also, the employment of a retort for vaporizing the oil at the burner of a lamp, substantially as and for the purpose specified.

Also, the separate oil chamber r in the retort, so arranged as to cut off or let on the supply

of oil thereto from the oil reservoir at pleasure, substantially as specified. Also, the separate vaporizing chamber X in the retort, arranged so as to be cut off from or

connected with the oil chamber r, substantially as set forth. Also, the retort cap T, arranged so as to regulate or close the flame orifice of the burner, substantially as specified.

Also, the rarefying chamber V, substantially as and for the purposes set forth.

Also, the chamber W, arranged and operating substantially as and for the purpose specified. Also, the radiating cone U, constructed, arranged, and operating substantially as and for the purposes set forth.

Also, the small auxiliary burner, situated within the rarefying chamber V, substantially

as and for the purposes specified.

Also, the double cone Y, arranged and operating in combination with the small burner,

substantially in the manner and for the purpose described.

Also, the register plate Z, for controlling the introduction of the draught, air, and vapors into the rarefying and blaze chambers V W in combination therewith, substantially as and for the purposes specified.

No. 35,550.—B. F. SOUTHGATE, of Bridgewater, Vt.—Improved Sawing Machine.—Patent dated June 10, 1862.—In the framing of the machine are notches or steps in which are fitted the lower ends of two levers, each having a curved block secured to their inner sides, the curved surfaces of said blocks being made to bear against a friction roller by means of springs. Pivoted to each lever is a pawl which engages with a corresponding ratchet, so that when power is applied to the shaft, a reciprocating motion will be imparted to the slide, and consequently to the saws as they operate on the stuff in the carriages.

Claim.—The levers N N provided with the pawls O and operated from the saw gate or sash, as shown, in combination with the ratchets M M, shafts L, and the cords or chains K, or their equivalents, arranged substantially as shown for giving the feed movement to the

carriages I, as set forth.

No. 35,551.—JAMES SPEAR, of Philadelphia, Pa.—Improvement in Stove Doors.—Patent dated June 10, 1862.—This invention consists in so constructing the door of a stove or heater that a metal plate may be placed before the mica while kindling the fire, and be easily removed after the fire is kindled, for the purpose of preventing the blackening of the mica

during the process of kindling.

Claim.—The combination of the openings b b' at the bottom of the door and the opening sa' at the top of the frame when in connexion with the mica and metal plate or wire gauze,

constructed substantially as described.

No. 35,552.—ALBERT TAPLIN, of Providence, R. I.—Improved Burner for Coal-Oil lamps.—Patent dated June 10, 1862.—The lower rim of the cone is turned upwards and ontwards, as shown in the engraving, for the purpose of lengthening out the cone so as to cause sufficient draught for the flame without bringing it in contact with the chimney, and thus admitting of the use of a short chimney.

Claim.—Turning the rim of the cone upward at A A and outward at B B.

No. 35,553.—James Thierry, of Aurora, Ill.—Improvement in Machines for Turning of Graditones.—Patent dated June 10, 1862.—This invention consists in combining a circular catting tool with a spindle fitting loosely in two boxes attached to a frame, which may be adjusted to a grindstone by means of wedges and acrews so as to allow the said spindle to form agreater or less angle with a plane passing through two points of the axis of the grindstone and through one point of the axis of the cutting tool. When in operation the cutting tool is moved from side to side, being caused to revolve by contact with the grindstone.

Claim.—The combination of a circular cutting tool C, a spindle D, and a frame F, together with the wedges K K' K'' K''', or their equivalents, with a grindstone turning machine, so constructed that it will operate by the joint effects of its contact with a grindstone in motion, and the inclination of said spindle in relation to said grindstone, as described above substan

tially.

No. 35,554.—G. M. THOMAS, of N. Y. —Improved Lemon Squeezer.—Patent dated June 10,

1862.—This invention is explained by the claim and engraving.

Claim.—A cast metal lemon squeezer composed of two handles A A', connected at their front ends by a fulcrum pin a, and provided respectively with bowls B C, one fitting within the other and below the handles, substantially as described.

No. 35,555.—C. A. WHEELOCK, of Uxbridge, Mass.—Improved Steam Trap.—Patent dated June 10, 1862.—The expansion pipe is secured at one end to a wall or any other stationary body and connects with the lower part of the heat radiator, and is so arranged as to be capable of being expanded lengthwise by the heat of the steam in the pipe. The free end of the which a valve opening and seat are made. While the pipe contains steam, and is free of water, it will be expanded lengthwise by the heat of the steam, and the valve will be closed by its direct pressure; but when the water forms in or enters the pipe the latter will contract and the valve stem will be stopped from moving with the pipe, and consequently the valve seat will be moved away from the valve and the water be discharged through the valve opening. after which the steam will again heat and expand the pipe so as to close the valve. The valve seat, or the same and its exhaust passage, are arranged between the valve and the stuffing-box of the valve stem for the purpose of preventing leakage of steam through the stuffing-box.

Claim.—Improved steam trap, as made substantially as before described, that is to say, not only with an abutment E, and with the valve and stem separate from such abutment, and movable with the pipe, as explained, but with the valve so arranged as to be closed by presure of the steam and opened by contraction of the pipe, under circumstances substantially

as above set forth.

And furthermore, in connexion therewith, the improved arrangement of the valve seat or the same, and its exhaust passage relatively to the valve stem and its stuffing-box, whereby the latter is separated or insulated from the pressure of the steam of the expansion pipe, as specified.

No. 35,556.—E. A. WIBLE, of Georgetown, Cal.—Improvement in Preserving Grapes and Other Fruit.—Patent dated June 10, 1862.—This invention is explained by the claim. Claim.—The packing of fruit sprinkled with powdered alum in layers, between layers of dry sand, in air-tight boxes, substantially as specified.

No. 35,557.—G. G. Wolfe, of Troy, N. Y. —Improvement in Stoves.—Patent dated June 10, 1862.—Within the fire cylinder is arranged a partition plate, which extends from the bottom plate of the base upwards to a point near a collar upon the fire cylinder, where an opening is made to admit of the passage of the hot air into the rear broad flue.

Claim.—The combination of the partition F with the fire cylinder B, substantially as de-

scribed and set forth.

No. 35,558. -W. A. WOOD, of Hoosick Falls, N. Y. -Improvement in Harvesters.-Patent dated June 10, 1862.—The object of this invention is to render a harvesting muchine easily convertible from a reaper to a mower, or vice versa, and capable of being made rigid for reaping grain and flexible for cutting grass. The platform and finger bar are united to the main frame by the rod or bar c bent up vertically at one end. To the platform bar is bolted a plate, to which is hinged a rod e extending upwards and resting on a plate tastened to the main frame, where it is rigidly held by a clip which enters one of a series of adjusting notches At the outer end of the rod c is a crank or arm which can be adjusted on the rod by means of holes through which and corresponding holes in the rod c, a pin or bolt may

pass to set the arm at any suitable height on the bar.

Claim.—First, uniting the platform to the main frame by the bent rod a and hinged rod e and their appliances, so that the platform may be raised or lowered on the main frame, substan-

tially as described.

Second, the plate d, as forming a hinged support to the rod e, and a means of uniting the

platform and finger bar, substantially as described.

Third, the device for raising and lowering the outer side of the platform, namely, the sleeve and its adjusting holes on the arm or outside wheel supporter E, and similar adjusting holes in the rod c, and a pin or key passing through them, substantially as set forth.

No. 35,559.—A. J. BOWEN, of Baltimore, Md., assignor to Himself and L. K. Bowen, of the same place.—Improvement in Tobacco Pipes.—Patent dated June 10, 1862.—This invention consists in providing the stem with two tubes or channels uniting near the mouth-piece, one leading to the bowl containing the tobacco and the other leading to a detachable receptacle secured to the bottom of the bowl.

Claim.—The two tubes or channels a and b in the stem in combination with the bowl c and

cup or receptacle d, as set forth.

No. 35,560.—J. E. EVERETT, of Dedham, Mass., assignor to W. EVERETT & Co., of the Same place.—Improved Wringing Machine.—Patent dated June 10, 1862.—To the end frames

I the rollers are connected side pieces which form a box having its bottom inclined from the nds, and from a longitudinal middle partition towards an outlet on each side. Beneath the ower roll is a trough, furnished at its ends with a lip which slides in a groove across the end ieces or frames, so that it may be moved from one side of the box to the other.

Claim. - The above-described water-conducting attachment for clothes wringers, consisting f the conducting box, with its longitudinal partition c and trough D, which may be moved

either side of the partition, substantially as specified.

No. 35,561.—J. H. FAIRCHILD, of Highgate, Vt., assignor to Himself and C. D. TIMETS, of the same place.—Improved Sup Bucket for the Manufacture of Maple Sugar.—
atent dated June 10, 1862.—This invention consists of an ordinary square wooden box, rhich is prepared for use by first boiling it in a composition of coal or mineral tar and slaked me, and, when dry, applying a quantity of the above-named composition to joints on the uside of the box.

Claim.—The combination of the cement and box for the specific purpose of catching sap,

T a sap bucket to be used in the manufacture of maple sugar.

No. 35,562.—HEZEKIAH CONANT, of Willimantic, Conn., assignor to the WILLIMANTIC LINEN Co.-Improvement in Machines to Label Thread Spools.-Patent dated June 10, 202.—This invention consists of a machine made up of several sets of apparatus, each of thich having certain functions and all acting in combination, the nature of which will be inderstood from the claim.

Claim.—First, the combination of feeding, holding, punching, pasting, applying, and

icket-presenting apparatus, all substantially such as described.

second, the combination, substantially as described, of feeding, withholding mechanism or pparatus, and these in combination with applying mechanism only substantially such as pecified, or in combination with punching out and applying mechanism, substantially such

Inird, punching-out and applying mechanism, substantially such as described, in com-

inttion with pasting mechanism, substantially as specified.

Fourth, a ticket-presenting apparatus, substantially such as described, in combination

ink punching and applying mechanism, substantially such as specified.

Figh, the combination of punching with applying mechanism, each having a mode of peration substantially as set forth.

sixth, in combination with ticket-presenting mechanism, substantially such as described, holding mechanism, substantially such as specified.

Seventh, in combination a rack, a bolt and a frame provided with projections, all substan-

ally such as specified and operating as described. Lighth, in combination a carriage, a rack, and a bolt, substantially such as described, in

ombination with a frame having projections thereon, as specified.

Ninth, in combination a rack, a carriage, and a bolt, and two pawls provided with proper schanism, substantially such as described, for causing them to act alternately, as specified. Tenth, a feeding trough adjustable toward and from a gate, substantially as described, in embination with a forked gate, whose range of motion is adjustable, whereby the same olding me hanism may be adapted to hold and centre articles of different size.

Eleventle in combination with a trough or lower support for a spool or similar article, two

nked gars, each having an independent downward motion, substantially as specified, thereby articles of different diameter at opposite ends may be more accurately held when cting in combination with proper mechanism for applying labels or tickets thereon.

Twelfth, in combination ticket-presenting, punching, applying, and pasting mechanism,

Il substantially such as described.

No. 35,563.—George Cook, of Bristol Station, Ill., assignor to Himself and WILLIAM CARLETT, of Aurora, Ill.—Improvement in Harrows.—Patent dated June 10, 1862.—This rachine is composed of a series of cross-beams provided with teeth on their under sides, and connected to each other at their upper and lower edges by means of links and eyes, by which hey are kept parallel with each other. By means of a lever extending over the machine from front to rear, in connexion with rods or links pivoted to the centre of the lever and to the tar of the machine, the cross pieces and teeth may be inclined so as to relieve the harrow of obstructions, and prevent it from being clogged by sods, &c.

Claim.—First, inclining the teeth of a harrow at the will of the operator, so as to dis-

harge the obstructions accumulated therein, and restoring the same to their positions for

working, without lifting the harrow, all substantially in the manner set forth. Second, the arrangement of the teeth A, beams 1, 2, 3, &c., eyes C C' and D D', and any mitable force for extending and contracting the same, so as to operate as set forth.

Third, the employment of the lever F and links H, as arranged, relatively to the beam 1,

3, &c., and to the eyes C C' and D D', and links c and d, as to operate as set forth.

Fourth, the uniting or connecting of the rods H to an eye G, which is higher than the eye x steeple E, to which F is connected, so that the extending and contracting force applied to the harrow by the elevation and depression of F shall act diagonally in the vertical plane, as set forth. Digitized by GOOGIC Fifth, connecting the lever F and the drag link B to a point E forward of and lower than the centre of the front beam 1, substantially as and for the purpose set forth when the parts are arranged relatively to the several other cross beams 23, &c., and their connexions, and to the links or bars H, as shown.

Sixth, securing the lever F in different positions by means of the notches i i', in the posts I, in combination with the other parts, substantially as represented, for the purpose of hold-

ing the tueth firmly in the several positions desired for working in various soils.

No. 35,564.—J. R. HYDE, of Troy, N. Y., assignor to CHARLES EDDY & Co., of the same place.—Improvement in Stones.—Patent dated June 10, 1862.—This invention consists in a.', string a boiler to the back or side of a stove by means of projections at or near the upper part of the stove into which fit pins on the side of the boiler, so as to cause the latter, by the weight of the water, to be kept in contact with the heated side of the stove.

Claim.—The suspending of the said boiler D at the upper corners thereof next adjoining the stove, by means of the brackets b b in combination with the brackets c projecting from the said boiler D into the recess a of brackets b b; so that, by the weight of the water in the said boiler, it will be brought into close conjunction to and with the stove thus connected

with said boiler, substantially as described and set forth.

No. 35,565.—Luke Kavanaugh, of Waterford, N. Y., assignor to Himself and Gag, Campbell & Gage, of the same place.—Improvement in Burrs for Knitting.—Patent dated June 10, 1862.—This invention consists in holding a series of separable wings fast in oblique radial slots in the hub by means of two detachable rings or plates engaged with and clamped against the ends of the obliquely arranged wings in the hub, so that, by simply unfastening and disengaging one or both of the said clamping plates from the end or ends of the ring, any one or more of the same can be readily removed from the hub and a new wing or wings inserted; and so that the burr can be altered into one of a coarser gauge, by merely transferring to a suitable hub a sufficient number of the wings, and the said endplates with their clamping devices.

Claim.—A rotary knitting burr having removable wings A held stationary within oblique radial slots b in a hub c by means of detachable rings or disks D D engaged with and

clamped against the ends of the wings, substantially as set forth.

No. 35,566.—James McNamee, of Easton, Pa., assignor to Himself and H. F. Steckel, of the same place.—Improvement in Registers for Bar Rooms.—Patent dated June 10, 1862.
—This invention consists in the employment of a box provided with a ball receptacle and series of compartments which are numbered and provided with a tilting bottom placed over a draw, which latter receives the balls inserted in the compartments by the customers, and which indicates the number of drinks that have been dealt out by the bar-keeper, the object being to serve as a check to the bar-keeper through whose hands the money passes into the till.

Claim.—The box A, provided with the numbered compartments B, having a tilting of movable bottom D', in connexion with the drawer E, also placed in the box A, and as

ranged with the compartments B, substantially as and for the purpose specified.

Also, passages D, numbered as shown at the front of the box A, and provided with the inclined bottoms b, when said passages are used in connexion with the numbered compartments B, tilting or moving bottom D', and drawer E, for the purpose set forth.

No. 35,567.—STUART PERRY, of Newport, N. Y., assignor to C. H. A. CARTER, of New York, N. Y.—Improvement in Horse Powers.—Patent dated June 10, 1862.—To the innered of the traction wheel shaft is fastened a hollow or cup-shaped gear wheel that will slide and work over a rocking journal box so as to bring the latter at or near the centre of the said gear wheel. This cup-shaped gear wheel is provided with square teeth or cogs which mesh with and turn a compound square and bevel wheel supported upon an axis, and through series of gearing, communicate motion to the machinery to which it is applied, so that the traction wheel may run upon the uneven surface of the ground or an uneven track, its shaft being allowed to rise and fall without injury to the gearing.

Claim.—Supporting the end of the shaft B in or near the centre of the main drive wheel E

for the purpose substantially as described.

Also, in combination with a main drive shaft that has upon its outer end a wheel that may run over an uneven track, the hanging of the opposite end in a rocking or pivoted box, we yield thereto, substantially as described.

Also, in combination with a main drive wheel E and the bevel pinion g the compound pinion F, composed partially of square and partially of bevelled teeth, substantially as and for the purpose set forth.

No. 35,568.—George Potts, of Youmtown, Pa., assignor to Himself, Joseph, and William, and A., and J. R. Potts, of the same place.—Improved Washing Machine.—Patent dated June 10, 1862.—This invention consists in the employment of a rubber provided with handles extending up at one end and attached at the other end to a rock shaft mounted upon

links which are pivoted to the legs upon each side of the box containing the water and clothes. so that the rubber may be freely vibrated upon the rollers near the bottom of the box.

Claim.—The combination and arrangement of the vat A, links G G, rock shaft I, and levers E E, firmly or rigidly fastened to the rubber D, substantially as described for the purposes set forth.

No. 35,569.—J. M. SANBORN, of Hardwick, Vt., assignor to Himself and E. M. GIFFORD, of Wolcott, Vt. - Improved Portable Milk Cooler. - Patent dated June 10, 1862. - This invention consists in the employment of a portable metallic vessel composed of a tapering tube closed at its largest end and bent at its outer end, upon and communicating with which, at their lower ends, are three tubes, which latter also communicate at their upper ends with a transverse pipe of a considerably larger diameter, surmounted by a funnel containing a strainer of wire cloth. This apparatus is placed within a tub containing cold water, the point of the tapering end fitting in an aperture near the bottom of the vessel. The milk is poured into the funnel, and in passing through the apparatus is exposed to a large amount of cooling surface. Claim.—The new article of manufacture described, adapted to the filtering of milk or other

liquid through water so as to change its temperature and to be readily applied to and removed from an ordinary vessel, substantially as and for the purpose set forth.

No. 35,570.—Rufus Sibley, of Greenville, Conn., assignor to Samuel Mowry, of the same place.—Press for Photographs.—Patent dated June 10, 1862.—This invention consist in the use, in connexion with a suitable bed, of a polishing roll set and turning in a travelling truck or carriage, and guided and controlled by ways and screws to regulate the necessary pressure between the roll and bed, for the purpose of pressing photographic pictures.

Claim. In combination with the bed and rails the travelling truck or carriage and the polishing roll operating in connexion therewith, substantially in the manner and for the purpose described.

No. 35,571.—J. E. SMITH, of New York, N. Y., assignor to Himself and C. T. and J. N. CHESTER, of the same place. - Improvement in Electro-magnetic Telegraphs. - Patent dated June 10, 1862.—This invention consists chiefly in an arrangement and combination of register or sounder magnets with receiving magnets in a main telegraphic circuit, wherein the current of the main circuit used to actuate the register or sounder magnet is controlled and reguated by the receiving magnet, the vibrating armature lever of which is arranged to act as an antomatic switch for the purpose of relieving the register or sounder magnets from the action of the escape or abnormal currents when the main circuit is opened.

Claim.—The combination of electro-magnets in a main telegraphic circuit, substantially as described, whereby the vibrating armature lever of the first or receiving magnet is made to discharge or neutralize the escape or abnormal currents flowing through the second or working magnets when the main circuit is opened in the operation of telegraphing, substantially as

No. 35,572.—R. M. TREAT, of Morris, Conn., assignor to Himself and G. H. DALEY, of the same place.—Improvement in Horse Rakes.—Patent dated June 10, 1862.—In this machine the shafts are boxed or fitted to intermediate journals on the axle and so as to turn. From the rear of the axle to which they are rigidly attached, and beyond the circumference of the wheels, extend two bars, to the ends of which is attached a rake head provided with short spring teeth. From the sides of the standards which extend up from the shaft and support the seal are pivoted curved rods extending back beyond the rake head eccentrically to the sale, and on the outer ends of these bars is hung a long bar provided with stops, which pass between the teeth of the rake, so that when the raker is turned up, the hay collected upon the teeth is discharged.

Claim.—First, the rigid bars d d, or their equivalent, extending out from the back of the terning axle A a b beyond the rear of the circumference of the wheels, for supporting a long

raker with short teeth, in the manner and for the purpose as described.

second, the swinging adjustable clearer or discharger G, arranged and operating substan-

ally in the manner and for the purpose described.

Third, the raker F in combination with the curved eccentric rods g g and discharger or clearer G, constructed and operating substantially in the manner and for the purpose described. Fourth, the arrangement of the wheels C C, axle A a b, shafts B B, seat D, bars d d, and maer F with hand lever H, in the manner and for the purpose described.

No. 35,573.—W. H. WILLARD, of Cleveland, Obio, assignor to SARAH E. WILLARD, of the sume place.—Improved Apparatus for Adjusting Propellers relatively to the Draught of Water.—Patent dated June 10, 1862.—This invention consists in the employment of an os-Gusting bed plate, upon which the engine and machinery are placed, and providing the stern Post of the vessel with a slot and sliding packing box so as to admit of the adjustment of the propelling wheel to the draught of water, by submerging or raising the socket to suit the traught of the vessel. In a groove on the under side of the keel, and secured to the same by 2 joint, is a fender or guard, to the rear end of which is attached a slide moving in a groove in the rudder post, for the purpose of protecting the propelling wheel. Digitized by

Claim.—The combination of the oscillating bed plate A, rotating packer B, and guard or fender V, constructed substantially as described and for the purposes set forth.

No. 35,574.—SMITH GROOM, of Troy, N. Y.—Improvement in Stoves.—Patent dated June

10, 1862.—The nature of this invention is explained by the claim.

Claim.—The introduction of highly heated steam into the fire chamber by means of annular chambers or pipes surrounding the said fire chamber on the inside thereof, and having therein apertures through which such steam or hydrogen is admitted into the fire around the outside thereof, whereby combustion is greatly aided and the fuel economized, substantially as described and set forth.

No. 35,575.—James McCholland, of Reading, Pa.—Improvement in Giffard's Injector.—Patent dated June 10, 1862.—This invention consists of a chamber enclosed in a metal cash; and provided with three projecting branches a b c in combination with an internal north c. The latter consists of a tube having throughout a greater portion of its length an even box, but diminishing gradually in diameter with a gentle curve from a point near its end to its same. The nozzle is screwed into a branch a, projects through the chamber above named and penetrates a short distance into the interior of a branch c, the extent of the penetrates being limited by the collar of the nozzle. On the outer end of the latter is cut a screw threst adapted to an ordinary cock, which, being connected to the steam pipe, serves to regulate the flow of steam through the nozzle. A similar cock connected to the water pipe is screwel upon the end of the branch b, and serves to regulate the admission of feed-water to its chamber. The branch c is connected directly to the boiler and with a pipe leading to its tender of a locomotive.

Claim.—The chamber A with the branch c communicating with the boiler and branch b at the water, in combination with the nozzle B for the steam; the whole being formed and are

ranged substantially as and for the purpose set forth.

No. 35,576.—W. V. Adams, of New York, N. Y.—Improvement in Shackles or Handers.—Patent dated June 17, 1862.—This device consists of two curved sections pivoted together their upper ends and provided with a locking apparatus, so arranged as to render the shackle adjustable in size. Upon the pivot that secures the two sections together is a hasp, through the eye of which passes the link of the connecting chain.

Claim.—The combination of the hasp E with the sections A and B, for the purpose of allowing to each one of a pair of shackles a motion independent of the other when in use, as

described.

No. 35,577.—WILLIAM D. ANDREWS, of New York, N. Y.—Improved Reciprocating Pump.—Patent dated June 17, 1862.—This invention consists in the employment of a compound piston, or one provided with two valves opening in opposite directions in a right line and used in connexion with a water-tight partition or abutment placed within the pump cylinder and in such relation with the two piston valves, the eduction or discharge opening and water passage communicating with the pump cylinder, that by a simple reciprocating movement of the piston, each valve will alternately propel the stream in the same direction through the pump, and each valve during its reverse movement allow the stream to pass freely through it, thereby operating with a moderate expenditure of power and admitting of a rapid movement.

Claim.—The compound piston, or one formed of two parts D D', each provided with a valve E, in combination with the partition or abutment B in the pump cylinder A, the water passage F, and the induction and eduction openings H G, when arranged to operate as and

for the purpose set forth.

No. 35,578.—S. L. AVERY, of Norwich, N. Y.—Improvement in Water Elevators.—Patent dated June 17, 1862.—This invention consists in an arrangement of mechanism connected with the crank for operating the windlass, by means of which the bucket may be readily raised and lowered and its contents discharged.

Claim.—The annular outer flanch a and the interior ratchet wheel b, which respectively project from the outer face of the metallic head E of the windlass shaft, when the said part have substantially the proportions and are used in the manner and for the purpose set forth.

Also, the jointing of the branched crank lever F with the movable head D, when the said head is combined with the rigidly secured head E of the windlass shaft in such a manner that the ratchet tooth c, on the branch arm k of said crank lever, can be made to operate in conjunction either with the ratchet wheel b or the annular flange a of the aforesaid head, in the manner set forth.

Also, the arrangement of the forked holder g, the spring h, and the branch arm j of the jointed crank lever F, with each other, and with the head D and the annular groove near the end of the windless shaft, substantially in the manner and for the purpose set forth.

end of the windlass shaft, substantially in the manner and for the purpose set forth.

Also, the arrangement of the hook-headed pall n with the metallic head D, when the said head is jointed to the branched crank lever F, and when these said parts are combined with the head E of the windlass shaft, substantially in the manner set forth.

No. 35,579.—Henry Behn, of New York, N. Y.—Improvement in Coal Oil Lamps.—Patent dated June 17, 1862.—This invention consists in providing a burner with a gas chamber between its upper and lower wick tubes. Near the lower part of this chamber are openings communicating with small pipes or tubes for conducting the gases from the said chamber, so as to prevent the lower wick tube from becoming heated. One side of the upper wick tube is disconnected from the other side, so as to act as a spring upon the wick, and is provided with a wedge to press it against the wick to retain the latter in position.

Claim.—First, the arrangement of the gas chamber d between the upper and lower wick tubes x and b in combination with the tubes or pipes m m, in the manner and for the purpose

substantially as described.

Second, the construction of the upper end of the gas chamber d, forming the upper wick tube \mathbf{z} provided with a wedge p, or its equivalent, in the manner and for the purpose specified

No. 35,580.—EBENEZER BICKFORD, of Ogden, N. Y.—Improvement in Apparatus for Snoking Meats.—Patent dated June 17, 1862.—This invention consists in conveying the smoke into a smoke-house of ordinary construction from an outer stove or generator by means of a pipe placed near the bottom of the smoke-house. In the under side of this pipe is a conginuinal slot or opening, extending nearly or quite its whole length, from which the smoke is allowed to escape freely and equally without carrying up any sparks or soot.

Claim.—In combination with the smoke house A the conducting and distributing pipe L

provided with an opening d, or its equivalent, extending nearly or quite its whole length, when the same is used to convey and distribute the smoke from an outer stove or generator

substantially as described.

No. 35,581.—JACOB BICKHART, of Harlan, Ind.—Improvement in Portable Fences.—Patent dated June 17, 1862.—This invention consists in the arrangement of braces having I shaped edges fitting in corresponding notches in the edges of the posts near to their upper ends, in combination with a cross-brace, the ends of which form hooks and catch over the inver edges of the said cross-brace, and with a wedge and semicircular gib, in such a manner that by the action of the cross-brace on the lower ends of the braces, the upper ends of the posts are held together, and by the action of the semicircular gib and wedge, which forces the coss-brace down, the lower ends of the posts are prevented from spreading. Claim.—The arrangement of the wedge d, gib e, and hooked cross-brace D, in combination with the braces C C' and notches a a' in the upper ends of the posts B B', all constructed

and operating substantially in the manner and for the purpose shown and described.

No. 35,582.—S. J. REEVES, of Philadelphia, Pa.—Improvement in the Construction of Columns, Shafts, Braces, &c.—Patent dated June 17, 1862.—This invention is explained by

Claim.—Uniting together three or more pieces of wrought-iron, made with flanges in the direction of their length, so that they shall form a column or shaft to be used as posts and 140 as braces or compression cords in the construction of buildings, bridges, piers, or other itrectures.

No. 35,583.—HENRY BOGEL, of Watertown, Wis.—Improvement in Velocipede Vehicle.— Patent dated June 17, 1862.—This invention consists of an arrangement of treadles and levers sub connecting rods and running gear, in such a manner that the vehicle may be readily ropelled and guided by the occupant. Connected with the above are a bellows and whist'e. manged in such a manner as to be operated by the running gear of the vehicle, so that an ilam may be sounded at the will of the occupant.

Claim. First, the arrangement and combination of the treadles N N, levers and handles 10 Q Q, and crank axles A B, in connexion with the semicircular rack bar F and wheel G,

arranged for joint operation as and for the purpose set forth.

Second, the clamps or levers S S and spring T, in connexion with the bar R on the shaft i. arranged substantially as shown, to prevent the casual turning of the front axle A, as pecified.

Third, the bellows U provided with the whistle V, when used in combination with the realles N N and levers Q Q, and operated by the crank axle B, substantially as and for the purpose set forth.

No. 35,584.—C. H. Brown, of Fitchburg, Mass.—Improvement in Feed Regulators for translation Boilers.—Patent dated June 17, 1862.—This invention relates to that class of boiler ed regulators which effect the movement necessary to set the feed pump in operation or proare the suspension of its operation, by means of the expansion and contraction of a pipe high arranged at the intended water level of the boiler, and which receives from the boiler ther steam or water according as the water therein is above or below a certain level; and invention consists in the employment of two levers connected with each other by a link and jointed separately to the expanding pipe, one of which levers works upon a fulcrum pin cached to any fixed support, so that the feed pump is readily thrown into gear and made to open the valve by which the pump is put in operation, and as the pipe cools and contracts, the motion of the levers is reversed and the operation of the pump stopped. A cold water reservoir is combined with the expanding pipe for producing a copious flow of water to cool and cause its contraction.

Claim.—First, having both of the levers E F jointed separately to the expanding pipe A, said joints being arranged upon opposite sides of said pipes, in combination with the fulcrum

D and the link G, as and for the purpose shown and described.

Second, the employment of the cold water reservoir I in combination with the expanding pipe A and lever F, substantially as and for the purpose shown and described.

No. 35,595.—A. BUCKWALTER, H. BUCKWALTER, and J. H. BUCKWALTER, of Kimbeton, Pa.—Improvement in Brick Machines.—Patent dated June 17, 1862.—This invention consists in a method of feeding the moulds to the press, whereby the feeding mechanism is placed under the complete control of the operator and the feed movement rendered capable being stopped at once in case of the moulds meeting with any resistance that would be list to injure them or any of the working parts of the machine. Means are also provided to feeding the clay to the moulds and pressing the same in the moulds, whereby the pressure cannot exceed a certain limit, thus preventing the moulds from being injured by an under pressure and uniformly pressing the clay therein. A reciprocating planer, provided with metal plates or scrapers, is also employed for facing off the moulds after they are discharge from underzeath the press box. The said plates are kept free from clay by means of cleares which pass over the plates at each vibration of the planer. In connexion with the above is water tank provided with a cock, to which an elastic tube is attached leading into a treatover the planer, and from the said trough extend pipes down at each side of the planer to be plates.

Claim.—First, the feeding bar G provided with the rack i, and having the weight M attached, in combination with the pinion H and toggle K, all arranged as and for the purper

specified.

Second, the drops V, arranged as shown, to yield or give to obstructions in the medds at the latter are forced out from underneath the box or hopper, as described.

Third, the reciprocating planer Z, provided with the adjustable plates or scrapers b' b', w

operate as set forth.

*Fourth, in combination with the plates b' b' the cleaners A'' A'', arranged as shown, a operate as and for the purpose specified.

Fifth, the water tank E' and trough H', the former being connected with the latter by me elastic tube G and the trough II', provided with pipes K', all arranged as shown, to open in connexion with the reciprocating planer Z, for the purpose set forth.

No. 35,586.—C. B. COGSWELL, of Essex, Mass.—Improvement in Horse Rakes.—Partidated June 17, 1862.—Each of the journals of the rake shaft or head is supported by a hange which projects from one or two slides or blocks supported by and capable of sliding up and down freely between two parallel and upright guides. Between these guides the rake slar is clasped by two intermediate hangers depending from the front bar of the carriage. By means of a lever, which clasps the shaft of the rake, the teeth of the said rake are pressed down and caused to turn and thus discharge the hay which has been collected in front of the

teeth.

Claim.—The arrangement and combination of the journal slides C C, the intermedian hangers E E, and the lever F, and its catching mechanism G, with the carriage and the revolving rake, the whole being so as to enable the rake head to operate substantially as specified.

No. 35,537.—A. B. COOLEY, of Philadelphia, Pa.—Improvement in Mode of Discharging Projectiles.—Patent dated June 17, 1862.—This invention consists in the employment of a solid cylinder fitted into an orifice in a shot or shell, and combined with a bell-shaped shield surrounding the stem of the cylinder, for the purpose of obstructing the injurious products of the ignition of the powder contained between the end of the orifice in the said shot of shell and the end of the cylinder.

Claim.—The solid cylinder b adapted to fit into the shot or shell A, and combined with the shield d, substantially as and for the purpose set forth.

No. 35,588.—John Copeland and G. P. Martin, of Quasqueton, Iowa.—Improvement in Churns.—Patent dated June 17, 1862.—This invention consists in an arrangement of inclined scoops on the inner surfaces of a rotary polygonal tub, in such a manner that of the action of the said scoops, the cream is carried up and thrown alternately against the heads or ends of the tub. Through one of the trunnions of the rotary tub passes the stem of a T-shaped tube, its cross tube being placed vertically in the interior of the tub and pressed against the inner side of the head and against a leather washer or other suitable packing placed between it and the head, so that the escape of cream through the head and trunnion of the tub is prevented, and at the same time the external air has free access to the interior of the tub.

Claim.—First, the arrangement of oblique scoops G on the inner surfaces of the sides of a prismatical rotary tub A, constructed and operating substantially as and for the purposes described.

Second, the T-shaped air tube H passing through one of the trunnions C of the rotary tub A, in combination with the spring c and packing ring d, constructed and operating substantially as and for the purpose specified.

No. 35,589.-J. M. Dillon, of Wheeling, Va.-Improved Centrifugal Governor .- Patent dated June 17, 1862.—This device is composed of a central chamber secured to and surrounding a vertical rotary shaft, to which motion is imparted from the engine or other motor, and having attached to it, by hollow arms, other chambers arranged at suitable distances from the said shaft. These chambers contain mercury, which is caused, by centrifugal force developed by their revolution with the shaft, to be driven in greater or less quantity from the central into the other chambers according to the velocity of their revolution. Within the central into the other chambers according to the velocity of their revolution. Within the central chamber and above the mercury is arranged a float or flexible diaphragm which is caused to fall and rise with the mercury in the said chamber, and so, by means of suitable connexions, to operate upon the regulating valve of the engine or motor in such a manner as to give it a greater or less opening according as more or less mercury is expelled from the said chamber, and thus regulate the speed of the engine.

Claim.—The governor, composed of the revolving chambers B D D, connected by hollow arms C C and the diaphragm E, or its equivalent, the whole combined and applied, in

connexion with the regulating valve, substantially as specified.

No. 35,590.-W. W. DINGEE and A. B. FARQUHAR, of York, Pa.-Improvement in Grain Eparators.—Patent dated June 17, 1862.—This invention is designed as an improvement upon the grain separator patented to Peter Geiser, October 9, 1855, and consists in securing the drum in its proper position by means of grooves through which pass projections cast on the movable plate used in Geiser's machine. The plates on each side of the fan are connected on the outside of the fan by an iron rod passing through the projections on the movable plate, and adjusted by means of nuts. A part of the tailing trough is enlarged, and in this enlarged part is made to enter a revolving block strap or endless slatted apron which carries the tailings up through a trunk into a spout leading to the thresher. A bag-holder is arranged at the end of a trough to hold a bag for the reception of the cleaned grain.

Claim.—Securing the drum of the fan in its proper position by grooves C C cast in perforated side-plates A.

Also, connecting the movable plates E, by the rod G, on the outside of the fan.

Also, the combination of the trough O, screen N, and trunk S, with the revolving bleck strap R, when made and operated as set forth.

Also, bag-holder L, when made as described.

No. 35,591.—WILLIAM DONNAN, of Burgettstown, Pa.—Improvement in Stock Gates for Water-courses.—Patent dated June 17, 1862.—This invention consists in placing in an upright position a series of teeth in a cross-piece, which latter is designed to rest upon the bottom of a brook. One end of the said cross-piece is attached to a box, and so operated by means of a lever and spring or weight as to allow the teeth to yield to the pressure and passage of drift-wood, and to cause them to return to a perpendicular position, to prevent

the passage of stock.

Claim.—The arrangement of a rake-shaped gate, with its head piece close to the bottom of the brook, and operated on by means of the lever e and spring m or weight w inside of the

metal box f or wooden box b, substantially as and for the purposes set forth.

No. 35,592.—ANDREW DOUGHERTY, of Brooklyn, N. Y.—Improved Paper-cutting Machine.—Patent dated June 17, 1862.—This invention relates to the cutting of paper into sheets either as it is drawn from a roll or as it passes from a paper machine, and it consists in combining the mechanism for operating the knives, which cut the paper, with the feed rollers, or their equivalents, (which deliver the paper to the knives,) by means of cam-formed cogged wheels, the large radius of one of which corresponds with the small radius of the other, the combination being such that while the knives are cutting, the speed of the paper is reduced to a minimum, and need not be more than sufficient to compensate the bevel of the knives, so that the sheet is cut squarely across its breadth, but after the cut is effected, the speed is progressively increased to a maximum, and then progressively decreased to that required during cutting, the average speed being that at which the paper must be delivered. In connexion with the above is an intermittent clamp, which gripes the paper at the time the cut is made by the knives, and prevents its movement, so that the paper is at rest while the knives are cutting, but at other times releases the paper, and permits it to move freely through the machine, so as to enable the paper to be cut in a straight line across the sheet. Combined with the cutting mechanism is a bellows for producing a blast of air to blow the end of the paper from the stationary knife, so that it may pursue its proper course through the unting machine, and prevent the end of the paper from which a sheet has been cut from adhering to the stationary knife.

Claim.—The combination of the mechanism for cutting the paper with the feed roller for delivering it to be cut, by means of cam-formed cog-wheels, substantially as set forth.

Also, the combination of the mechanism for cutting the paper, the feed rollers, the canformed cog-wheels, and an intermittent clamp, substantially as set forth.

Also, the combination of the knives of a paper-cutting machine, with a bellows for producing a blast of air to detach the paper from the knives, substantially as set forth.

No. 35,593.—J. J. DRESBACH, of Circleville, Ohio.—Improvement in the Exploding Device of Shells.—Patent dated June 17, 1862.—This invention consists in the employment of sliding exploder, which is controlled by a yielding friction induced by a spring, or its equivalent, between it and the guide or plunger tube in which it works, and by the wedging impact of the exterior of the plunger against the interior surface of the conically formed pation of the plunger tube, such friction being sufficient to withstand the rebound of the plunger which occurs when the projectile is fired from the cannon, and likewise to retain the plunger out of contact with the cap-nipple until the projectile is suddenly arrested in its flight.

Claim.—In combination with an exploding projectile, a plunger tube E, having a taperal portion E' and a conical spring plunger H working therein, substantially in the manner and

for the purpose set forth.

No. 35,594.—LEMUEL ENSIGN, of Millburn, N. Y.—Improvement in Fanning Mills.—Patent dated June 17, 1862.—This invention consists in providing the cockle-riddle with a plate attached to its under side, upon which a spring hammer is caused to strike by mean of the hopper, the lower edge of which as it vibrates longitudinally passes over the curved part of the spring hammer, the object being to keep the riddle clear and allow a free passage of the chess into the hopper.

Claim.—The arrangement and combination of the riddle R", plate p, and spring hammer

s, substantially as and for the purposes set forth.

No. 35,595.—J. A. FANSHAWE and J. A. JAQUES, of Tottenham, England.—Improved Steam Generator.—Patent dated June 17, 1862.—Patented in England October 31, 1861.—This invention consists in subdividing the generator into several narrow water compartments between which are arranged a series of flues of convolute or serpentine form, so as to increase their heating surface.

Claim.—The constructing of steam boilers with a series of distinct narrow water spaces or compartments, combined together side by side, and having provided between them convolute, curved, or serpentine flues or fire and gas passages, substantially as specified.

No. 35,596.—G. P. FARMER, of Philadelphia, Pa.—Improvement in Envelopes for Swing Needles.—Patent dated June 17, 1862.—This invention consists of a strip of paper or other suitable material, into which the needles are stuck and arranged separately from each other: the paper with its needles being permanently attached to a wrapper arranged to foldow and enclose the needles.

Claim.—The holder B and wrapper A, when constructed and arranged for holding the needles and folding over and enclosing the same, substantially as and for the purpose set

forth.

No. 35,597.—LYMAN FAY, of Fall River, Mass.—Improvement in Mode of Securing Rail road Joints.—Patent dated June 17, 1862.—This invention consists in the employment is connexion with the two fish pieces which overlap the joint of the railroad rail, of a cast-iwn box, having an iron block or follower that fits within the sides of the box and rests upon a packing of suitable elastic material contained in the box. Passing through the box, packing follower, and fish pieces are bolts, which are tightly screwed so as to compress the packing which serves to prevent the bolts from turning and hold the fish pieces firmly against the rail.

Claim.—The method, substantially as above described, of securing the fish pieces AB which overlap and confine the joint a, of two railroad rails, viz., the box F and follows G.

with the elastic packing H and the bolts E passing through them.

No. 35,598.—W. L. Fish, of Newark, N. J.—Improved Attachment to Lamp Chimneys—Patent dated June 17, 1862.—This invention consists in combining a metallic receiver or vessel with the chimney of a kerosene or other lamp, so arranged as to be readily removed from the lamp for the purpose of heating water. In the bulb of the lamp below the receiver is an aperture to admit of the passage of light into the room.

Claim.—First, a lamp chimney A provided with a receiver B, substantially as and for the

purpose shown and described.

Second, the arrangement of the window s in the metal bulb s of a chimney A, as and for the purpose set forth.

No. 35,599.—OSCAR FALKE, of New York, N. Y.—Improved Hard Rubber Compound—Patent dated June 17, 1862.—This invention consists of a hard vulcanite produced by a

peculiar mixture and treatment of sulphuret of antimony, sulphite of sods and India-rubber, guita-percha, or other vulcanizable gums, so that the same shall be free from any offensive

Claim.—The above-described improved hard vulcanite as a new article of manufacture, when the same is made substantially in the manner and for the purposes set forth.

No. 35,600.—C. M. FRENCH and W. H. FANCHER, of Waterloo, N. Y.—Improvement in Combined Plough and Gun.—Patent dated June 17, 1862.—This invention consists in forming the beam of a plough of iron of cylindrical shape, having a bore and provided with a vent at its rear end, so that it may be used as a cannon when desirable.

Claim.—The combined implement described, consisting of the hollow or tubular ordnance beam D combined with the parts B C and A of a plough, substantially as and for the two-

fold purposes set forth.

No. 35,601.—Daniel Fobes, of Boston, Mass., and H. M. Hartshorn, of same place.-Improvement in Fire Ladder Apparatus.—Patent dated June 17, 1862.—This apparatus is composed of a carriage or frame supported upon wheels, upon which are arranged sectional ladders sliding one within another, and elevated by means of an endless chain or belt upon a toothed wheel and guide roller. Applied to the belt is a lifter tooth, which takes into a recessed shoulder upon the lower part of the inner sliding ladder, by which the latter is raised and held in an elevated position by a spring pawl affixed to the main or lower ladder, and entering a notch on the rear of one of the bars of the sliding ladder. To the top of the sliding ladder is hinged a hooked frame or window breaker, so that it may be raised up and allowed to fall against and break the window, the motion being communicated by means of

ropes which are attached to the same and extend down to a windlass upon the frame below.

Claim.—The combination of mechanism employed in elevating the ladder sections, the same consisting of the endices chain or band F, the lifter tooth L, the pawl p, the tooth shoulder k2, and the pawl notch q, or mechanical equivalent, applied to the main ladder and each section and operating therewith, substantially as specified.

Also, the combination of the movable hooked window breaker L' and its operating lines or chains with the extension ladder, the same being to operate in manner and for the purpose, with respect to such ladder, as specified.

No. 35,602.—C. L. FRINK, of Rockville, Conn.—Improvement in Weavers' Shuttles.—Patent dated June 17, 1862.—The object of this invention is so to construct a shuttle as to prevent it from splitting by the metal tip or point striking any hard substance when the shuttle is thrown out of the loom, and also providing a means whereby a shuttle of common construction which has been split may be repaired and rendered thoroughly sound. The claim explains its construction.

Claim.—As a new article of manufacture, a shuttle provided at its ends with shanked metal tips B and metallic ferules D, the latter fitting within annular cavities C beneath the surface of the wood, and all constructed, combined and arranged in the manner and for the

objects set forth.

No. 35,603.—M. A. GENUNG, of Granville, Ohio.—Improved Door Bell and Burglar's Alarm.—Patent dated June 17, 1862.—This invention consists in combining a burglar alarm with a gong-shaped door bell, in such a manner that, upon the door being thrown open to the extent of one inch, an alarm will be sounded. The burglar alarm is placed under the bell, and is put in working order by winding up a spring. A wire is attached to a pin in the door, so that upon opening the latter the wire is thrown off and the spring causes a hammer to make a series of rapid strokes upon the bell.

Claim.—First, the combination of the said attachment on the jamb of the door and the pin

connected with the alarm of the bell, substantially as and for the purposes specified.

Second, the arrangement of the springs BC in connexion with lever A and shaft C, by which the lever D and lever E are caused to operate on the shaft F in such a manner as to cause the hammer I to operate on the bell J, substantially as specified.

Third, the bridge hinge Q, by which the bell is supported and opened to wind up the alarm,

substantially as specified.

Fourth, the perforated band Y encircling the base and bell rim as a protection, as specified.

No. 35,604.—W. H. Guillo, of Brooklyn, N. Y.—Improvement in Rotary Pumps.—Patent dated June 17, 1862.—This invention consists in the employment of a wheel provided with a series of spiral flanches or arms, and fitted upon a horizontal shaft which is placed within a cylindrical case, with the wheel arranged in such a manner that both will have a proper bearing, and suitable provision be allowed for wear, so that the wheel will rotate without any loss from back action or leakage. The induction end of the case is smaller than the other part, thus forming a shoulder within the cylinder against which the smaller end of the wheel

Claim.—The wheel G, composed of a series of spiral arms or flanches g connected with a rim f, in combination with the cylindrical case A, having two different diameters to form a

shoulder or bearing b for the wheel, which, with its shaft E, is fitted within said case, substantially as and for the purpose set forth.

No. 35,605.—C. C. Harrison and Jos. Schnitzer, of New York, N. Y.—Improvement in Lens for Photographic Cameras .- Patent dated June 17, 1862 .- This invention is explained

by the claim and engraving.

Claim.—The combination of two sets of cemented lenses, as represented in the accompanying drawings, the exterior surfaces of which shall form part of the same sphere, the axes of which shall be coincident, and the other curves of which shall be so proportioned to the focal distance of the combination, and to the refractive and dispersive powers of the glass used in their construction, that the image found at the focus shall be achromatic, and that said image shall be upon or almost exactly upon a plane without distortion of form, and including a larger visual angle, substantially as before described and represented.

No. 35,606.—W. E. HATFIELD, of Newark, N. J.—Improvement in Odor Traps for Sinks, &c.—Patent dated June 17, 1862.—This invention consists in cutting the lower end of a waste pipe at an acute angle, and hinging a flap to the same so as to fit closely the edges of the pipe. At the back of and just above the hinge of the flap is pivoted a weighted lever. which serves to keep the valve closed when no fluid is passing through. The valve is enclosed within a tight box or case.

Claim.—The odor trap, having a valve at such an acute angle as to require but slight pressure to close or open it, when constructed substantially in the manner and for the purpose

specified.

No. 35,607.—R. T. HATHAWAY, of New Bedford, Mass.—Improvement in Raising and Transporting Stone.—Patent dated June 17, 1862.—This machine is composed of a rectangular frame supported upon an axletree, the bearings of which are bent and are secured to the axle and to a strut by means of bars and plates for the purpose of insuring a strong support. The lifting shaft is supported upon a framing composed of struts, and is operated by means of a series of gear wheels and cranks from one or both ends of the machine.

Claim.—The combination of the bent wheel arms or axles n n and bars r r with the side pieces m m, struts k k, plates s s, and clips D D, in the manner and for the purpose shown

and described.

Also, the arrangement together of the lifting shaft E and its gear wheels in the centre of the framing f f w w k k, as shown and described, so that the gearing and the weight to be litted will always be evenly balanced upon the wheels, as set forth.

No. 35,603.—Samuel Heller, of New York, N. Y.—Improvement in Attaching Straps to Pantaloons.—Patent dated June 17, 1862.—This invention consists in securing to the inner side of the pantaloon near the lower end, a folded metal piece provided with holes or eyelets. into which are inserted hooks upon the leather strap that passes under the foot.

Claim.—The described mode of constructing and attaching pantaloons and pantaloon straps, the same consisting in the employment of the parts B C and D E, or their respective

equivalents, arranged to operate together in the manner set forth.

No. 35,609.—Remi Henry, of Morrisania, N. Y.—Improvement in Pumps.—Patent dated June 17, 1862.—The pump cylinder which is open at both ends, is connected to the shell by means of vertical plates and flanches, which serve as partitions to divide the shell centrally, thus forming two compartments which are provided with the proper valves, and by the operation of the piston are alternately filled and discharged.

Claim.—The arrangement of the partitions c c with the cylinder B, pipes a b, and the shell

A, in the manner shown and described.

No. 35,610.-L. L. HILL, of Hudson, N. Y.-Improvement in Making Illuminating Gas.-Patent dated June 17, 1862.—This invention consists in charging a retort with billets of wood distilling off the wood spirit and gas, and then letting in upon the fresh, hot charcoal, a stream of retroleum and a stream of water, the heat under the retort being continued. These liquids are decomposed by the charcoal and make illuminating gas.

Claim. The combination of wood gas, the hydrogen of water, and the gas of paraffine oil. or the same combination with any other oil gas, or the gas obtained from bituminous coal,

when effected in the manner substantially as described.

Also, the methods described for producing and uniting the same with a view to convenience efficiency, and economy.

No. 35,611.—B. B. HOTCHKISS, of Sharon, Conn.—Improvement in Concussion Fuse for Explosive Shells.—Patent dated June 17, 1862.—In the base of a case or barrel within the projectile is a conical aperture into which fits a corresponding plug. Between this plug and its seat is introduced a wire, which is held in position sufficiently firm to resist any concusions incurred by ordinary handling. The inner end of this wire is secured to a heavy plunger filled with powder, and having on 'ts upper end a cone provided with a percussion cap. When

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the shell is fired from the cannon the conical plug is caused to leave its seat and thus release the wire and plunger, so that, as the projectile strikes a resisting object, the plunger is thrown forward and explodes the cap.

Claim.—The plug E and wire J, or their respective equivalents, arranged to operate in the

percussive mechanism of explosive projectiles, substantially as set forth.

No. 35,612.—J. B. JOHNSON, of Lynn, Mass.—Improvement in Warming Passenger Cars.—Patent dated June 17, 1832.—This invention consists in arranging a stove or heating apparatus within the doorway of a carriage, and in such a manner as to be held in place by the door, and capable of being changed from one door to the other. An auxiliary pipe passes through that part of the roof projecting over the platform, to which pipe that of the stove connects for the purpose of preventing the soot from dropping within the carriage.

Claim.—The arrangement of a stove or heating apparatus within the doorway of a carriage,

as described.

Also, the construction of the heating apparatus with the tongue and groove, or their mechanical equivalent, arranged on opposite sides or edges of it, and so as to enter the door frame and receive the door of the carriage, when such heating apparatus is arranged within the doorway of such carriage, as set forth.

Also, the arrangement of the auxiliary pipe I relatively to the driver's platform or in the projecting roof thereof, as explained, when the heating apparatus is arranged in the doorway,

as set forth.

No. 35,613 .- G. A. KEENE, of Newburyport, Mass .- Improvement in Pendent Measuring Fuzzels.—Patent dated June 17, 1862.—This invention consists in attaching a pendent tunnel measure to the faucet of a cock by means of a rubber or other flexible pipe, so that in whatever direction the cask may be tipped, the flat top of the measure will preserve its level so as to measure correctly by the graduated glass on the side, while at the same time all dust and insects are effectually excluded.

Claim.—Attaching a pendent tunnel measure to a cask faucet by means of a rubber or other

flexible tube D, substantially as described and for the objects specified.

No. 35,614.—M. M. LATTA, of Goshen, Ind.—Improvement in Surgical Splints.—Patent dated June 17, 1862.—This invention relates to a splint designed chiefly for the treatment of fractures and other diseases of the long bones of the thigh and leg, and in certain cases of the arm also. Its nature will be understood by reference to the claim and engraving.

Claim .- First, applying the counter extension to the splint instead of to the person, sub-

stantially as set forth.

Second, applying the principal dressing to the sound limb, substantially as set forth.

Third, the use of a spring and index, or equivalent devices, substantially as described, to

show the amount of extending force applied.

Fourth, attaching the cross bar D to the long splint A by springs B B, which permit the descent of the cross bar, retain the splint in correct position, and equalize the tension upon both ends of the bar so as to cause it to slide freely on the shaft F.

Fifth, supporting the cross bar D upon a truck frame, substantially as described, to adapt

it to move without obstruction.

Sixth, the combination of the graduated crutch P, extension devices L N O, spring J, and index i, for the purpose of measuring the relative length of a healed and an uninjured limb, as explained.

Seventh, in combination with a foot board M, rigidly secured to the cross bar D, the application of the extension to the foot independently of the said foot board, substantially as and or the purposes described.

No. 35,615.-W. A. LIGHTHALL, of New York, N. Y .- Improved Circulator for Steam Engines.—Patent dated June 17, 1862.—This invention is designed to be applied to refrigerators for cooling the injection water of condensing engines to be re-used in the condenser for the purpose of accelerating the flow of cooling water through the tubes of the refrigerator or condenser when the vessel is propelled at too low a rate of speed to supply the proper amount of cooling water to the tubes to produce the required effect. It consists in connecting with the "outboard pipe" of the apparatus, a vane or propeller wheel driven by the shaft of the engine or other suitable means, and at a proper rate of speed to force out through the "outboard" pipe, and receive through the "inboard" or receiving pipe, a larger supply of the external or cooling water than would be forced out of or introduced into those pipes by the motion of the vessel through the water.

Claim.—The combination of the propeller or vane wheel F with the refrigerator or condenser A, supply pipe B, and delivery pipe C, arranged and operated as and for the purpose

set forth.

No. 35,616 .- G. McKown, of Altona, Ill .- Improvement in Machines for Upsetting Tires .-Patent dated June 17, 1862.—This invention consists in the employment of an apparatus composed of a toggle which operates a slide, to which latter is fitted a jaw provided with

This slide is also provided with an oblique slot, in which is fitted a taper key. At the end of the bar upon which the slide works is attached a cross bar provided with a corresponding jaw, slot, and key, but placed in a reversed position, all so arranged as to permit the tires to be shrunk so as to fit the wheels to which they are to be applied without being cut and welded.

Claim.—First, the taper keys J M, when fitted in taper oblique slots I L, for the purpose of enabling them to sink into the tire under the action of the slide G, as described.

Second, the loop O and bar P, constructed and arranged as shown, for the purpose of

forming a bearing or support for the heated portion of the tire, as specified.

Third, the combination of the toggle D with slide G stached, the stationary bar K, jaw-H N, the oblique slots I L, keys J M, and the bearing or support formed of the loop O anbar P, all arranged for joint operation as and for the purposes set forth.

No. 35,617.—Purches Miles, of Hartford, Conn.—Improvement in Sash Locks.—Patest dated June 17, 1862.—This invention consists in the employment of a swinging or vibrating lever with a suitably formed projecting end in combination with a spring cam piece so arranged as to maintain a constant pressure of the moving lever against the surface on which the retaining force is to be exerted and prevent the lever from moving back. The vibrating lever is formed with an eccentric hub piece in combination with a retaining leg or projection on the spring cam for the purpose of holding the vibrating lever properly within the case. With the vibrating lever is also combined a double cam dog or eccentric roll.

Claim.—The swinging lever B in combination with the cam D, with its arm D', and the spring d, or its equivalent, and the key E, the whole constructed and operating as described

for the purpose set forth.

Also, forming on the pivot end of the arm B an eccentric hub i in combination with the arm D' of the spring cam D, for retaining the vibrating arm within the case A, as described Also, the combination of an eccentric clamping dog or double cam piece C, or its equivalent, with the vibrating spring-actuated lever or arm B, substantially as and for the purpose set forth.

No. 35,618.—John Mix, of West Cheshire, Conn.—Improvement in Securing Bits in Braces.—Patent dated June 17, 1862.—This invention consists in providing the cylindrical shank of the bit with two plain surfaces, against one of which a screw or stop in the socket is made to bear, and against the other a set screw, also passing through the socket, is forced. by which the bit is readily adjusted and firmly secured.

Claim.—The cylindrical shank D provided with plane surfaces a c, as shown, in connexion with the stop or bearing E and the set screw F, all arranged substantially as and for the

purpose set forth.

No. 35,619.—CHARLES MORRILL, of New York, N. Y.—Improvement in Breech-Loading Ordnance.—Patent dated June 17, 1862.—This invention consists in combining a locking or breech-pin with a sliding box by means of a sliding joint, which is operated by means of a lever and eccentric. On the sides of the breech pin are inclined flanges which slide in grooves. to which they are fitted.

Claim.—First, the combination of the eccentric E, the sliding box C, and the breech-pin

B, or their equivalents, operating substantially as and for the purposes described.

Second, the arrangement of the inclined flanges N N and the corresponding grooves 0 0. substantially as and for the purposes described.

No. 35,620.—A. P. MYERS, ISAAC SEARLES, and G. W. SPENCER, of Prattville, N. Y. Improvement in Churns.—Patent dated June 17, 1862.—This churn is provided near its bottom with a horizontal partition, which forms a small compartment to receive a drawer, in which is placed a coiled pipe communicating at one end with the nozzle of a bellows which is attached to the churn. The lower compartment communicates with the churn above the surface of the cream by means of an external pipe. The plunger is formed of two cross bars. which latter are provided with holes, through which pass the rods of valves. On the under side of each dasher bar are openings or air cells which are filled with warm air as the dasher When the dasher is forced down, the warm air is carried through the cream until is raised. the valves are opened, when it again escapes and passes up through the cream.

Claim.—The combination of the air cells l and valves j with the dasher J and bottom 4.

as shown and described.

Also, the arrangement of the movable water receptacle C, air-pipe D, bellows E, and pipe I with each other and with the chamber B and churn A, in the manner shown and described

No. 35,621.—S. R. PARKHURST, of New York, N. Y.—Improvement in Machinery for Cleaning Wool, Cotton, &c.—Patent dated June 17, 1862.—This invention consists in the combination of two toothed feed-rollers with a pair of bur cylinders and a beater, whereby the fibres are opened and the foreign substances removed by the beater; and with the said bur cylinders are also combined a third bur cylinder and a beater that operate on the opposite side of the fibre to that upon which the first set of bur cylinders are made to act, for the purto fremoving any foreign substances that might previously have been enveloped in the res. From the last bur cylinder the fibres are taken by "the licker in" of a carding chine or by a brush, doffer, or other convenient means.

Seim.—The arrangement of the cylinders d and e, feed rollers b and e, and beater f, sub-

atially as and for the purposes specified.

Also, the cylinder k and beater i when combined with the cylinder d and beater f, whereby cotton, wool, or other fibre is exposed on both sides of the bat to the operation of the uers, as and for the purposes set forth.

No. 35,622.—CHAS. H. PLATT, of New York, N. Y.—Improved Bush for the Sheaves of thle Blocks.—Patent dated June 17, 1862.—This invention consists in making the greater nion of the bush which is fitted in the wooden sheave of square or polygonal form, for the pose of preventing the turning of the bush within the sheave, instead of depending upon its passing through the latter, as is usual, to effect the same purpose. The bush is proled with a flanch, which is bolted to the sheave in order to prevent end motion out of the

Claim.—A metallic bush B for wooden sheaves A, formed of a square or polygonal part provided with a flanch b of circular or other form to admit of the bolts c passing through substantially as and for the purpose set forth.

No. 35,623 .- L. W. POND, of Worcester, Mass. - Improvement in Revolving Fire-arms. tent dated June 17, 1862.—This invention relates to that class of revolvers which have ir cylinder frames made to open at the lower front corner by a movement on a hinge-joint the upper rear corner, for the purpose of introducing the cartridges into the chambers from rear of the cylinder, and it consists in a downward continuation of the upper part of such me to pass over the rear of the cylinder at the point where the hammer strikes the cart-ge in such a manner as to form a recoil-shield which is wholly or nearly independent of breech-piece or usual recoil-plate and of the lower part of the cylinder frame, thereby eving the said plate and the hinge-joint of the strain of the recoil.

Zaim.—The combination with a cylinder frame made in two pieces, hinged together at upper rear angle, of a downward extension G of the upper part of the frame below the

ge joint, substantially as and for the purpose specified.

10. 35,624.—George Pratt, of West Roxbury, Mass.—Improvement in Coal Sifters. ant dated June 17, 1862.—This invention consists of a metal disk provided with a flange ecting on the under side so as to fit over a barrel, and with another flange on the upper is fitted with a socket on one side to receive a swivel that projects from the under side of a secured to the sieve. The opposite side of the disk is made to allow a cast-iron handle, ared to the sieve, to have a horizontal movement. The dust is prevented from escaping stops rising in suitable places from the ring, and the open space in which the handle rea, is closed by a circular slide of the same diameter as the inside of the flange, the slide ig fitted to and moving with the handle in a suitable channel on the ring.

Zim.—First, the arrangement of the swivel plate f projecting from the side of the sieve in combination with the disk or ring A and arm c, constructed and operating as and for

purpose specified.

econd, the arrangement of the ring A with flanges a b and open space k in combination h the handle E, circular slide l, stops n, slieve E, cover C, and barrel B, all constructed operating as and for the purpose shown and described.

io. 35,625.—Samuel Richardson, of Rochester, N. Y.—Improvement in Corn Shellers.—ent dated June 17, 1862.—This invention consists in the employment in corn shellers, m outer or secondary cylinder, which is composed of a series of annular divisions, in comation with the primary or inner cylinder to which each division is hung by means of the pins and springs in such a manner as to yield and thereby adjust themselves to the sage through the machine of large or small cars and to any inequalities of size in the ne ears.

Claim.—The employment, in corn shellers, of a series of annular sections or divisions B hich form the outer cylinder) in combination with the primary or inner cylinder D, they ng arranged and operating substantially in the manner specified.

10. 35,626.—E. C. ROBERTS, of Salem, Mich.—Improved Mode of Preserving Fruit Tegetables.—Patent dated June 17, 1862.—This invention consists in preserving fruits regetables in their fresh and natural state by keeping the same at a low temperature, rly but not quite to the freezing point, by means of snow and ice.

Lim.—The preservation of fruit and vegetables by the combined action of snow and and the combined action of snow action of snow a when placed around the boxes containing the fruit or vegetables, as set forth.

10. 35,627.—H. C. ROGERS, of Scranton, Pa.—Improvement in Hoss.—Patent dated 16 17, 1862.—The nature of this invention is explained by the claim.

Claim.—As a new article of manufacture, a hoe A composed of two plates a b, one of iron and the other of steel, so united by welding them together that the two metals form the cutting edges for the purpose set forth.

No. 35,628.—Timothy Rose, of Cortlandville, N. Y.—Improvement in Churus.—Patent dated June 17, 1862.—The inner vertical bars of the dasher are made square, and are set in the cross pieces so as to present an angle to the cream when in motion. The outer has are made larger, the front of each having an angular face, and the rear being either angular or convex for about one-third of its length from the upper end downwards; the remaining two-thirds of its length is concave for the purpose of forming a vacuum in its rear when it motion, and this concave portion of the outer bars is connected with the front by a bird passage way for air; the object being to produce the butter by pressure rather than by beating or pounding.

Claim.—The peculiar form and construction of the outer bars or slats of a vertical chan dash in combination with the middle bars, substantially as described, with the object and

for the purpose set forth.

No. 35,629.—SIMON ROSENHEIMER, of New York, N. Y.—Improvement in Boots of Shoes.—Patent dated June 17, 1862.—This invention consists in securing to the innersit of the front part of the sole, a wedge-shaped ridge or partition, so as to separate the big we from the others, for the purpose of curing the enlargement of the joint of the foot caused by bunions, corns, &c.

Claim.—The combination of the sole of a shoe or boot with a small ridge or partition, and

stantially in the manner and for the purpose as described.

No. 35,630.—WILLIAM RUMBOLD, of St. Louis, Mo.—Improvement in Domes.—Pased dated June 17, 1862.—The inventor says: "The principle of construction adopted in this invention consists in providing for the confining of the thrust upon arched ribs of domes, by the construction of the arched ribs in one unbroken length, and with inner and outer should projections, and placing strong metal bands upon the extrados and intrados of the arched ribs, in such a manner that the skeleton dome constitutes a rigid structure possessing grain brought in proportion to its weight, and while the bands confine the thrust of the arched beams or ribs, the latter in turn support the bands and provent their moving either upward and also the spreading or twisting of the ribs."

Claim. - A metal dome constructed substantially as described, for the purpose set forth

No. 35,631.—A. F. SAUNDERS, of Chelsea, Mass.—Improved Clothes Wringer.—Paird dated June 17, 1-62.—The standards which support the rolls are cut away at their upper end, and a block is hinged to the edge of the standard, thus forming a jaw. A projective piece of this block bears on the shaft of the upper roll, the pressure upon which is regulated by means of a thumb screw passing through a brace and into a wooden spring, each end of which bears against one of the jaw pieces near its top.

Claim.—The described clothes-wringing machine, consisting essentially of the rolls B b, the standards A A', with their movable jaws F, the spring H, and regulating screw 6

arranged and operating substantially as described.

No. 35,632.—S. B. SEXTON, of Baltimore, Md.—Improvement in Heaters.—Patent dand June 17, 1862.—The nature and object of this invention will be understood from the claim

and engraving.

Claim.—First, the air-heating chamber F located above the fire pot between the chambers G G', communicating in front with the interior of the room and at the back with a chambers from which heated air is conducted to apartments above the said parts, being arranged to operate in the manner and for the purposes specified.

Second, the employment of the air-heating chamber F, located as set forth and open both at front and back, as a means of producing a free circulation of air in contact with the top

of a covered fuel supply chamber, E, of any suitable construction.

Third, the combination of the chamber F, stoppered aperture N, flue D, and covered opening c of the fuel supply chamber, all arranged in the manner and for the purpose specified.

No. 35,633.—PIERFONT SEYMOUR, of East Bloomfield, N. Y.—Improvement is Sading Machines.—Patent dated June 17, 1862.—Under the bottom of the seed box is secured metallic plate or fixed jaw, to which all the other parts of the device are attached. Length wise through this jaw is an oblong aperture, and beneath the same is secured an adjustate jaw supported by a number of transverse bars attached to the side of the fixed jaw. Upon the upper side of these supporting bars are projections which fit in oblique alots in the significant plane, so that by moving the latter longitudinally, the opening may always be really adjusted.

Claim.—The arrangement and combination of the fixed, attaching jaw B, movable, aljusting jaw C, and adjustable supporting guide bars D D D, substantially in the manner and

for the purpose specified.

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No. 35,634.—JONATHAN SMITH, of Tiffin, Ohio.—Improvement in Grain Drills.—Patent ated June 17, 1862.—Between the bars forming the double drag bar is a metal block or plate rovided with two or more holes for the passage of a bolt, to which the spring is secured for he purpose of adjusting the latter, so that the shovel or point of the drill tooth may be thrown nward or backward, and thus cause the seed to be deposited at a greater or less depth as saired. The upward curved projection of the tooth is also provided with holes to receive a

rooden pin, which may be changed to suit the position of the spring as adjusted by the block.

Claim.—First, in combination with the spring f and curved neck S of the tooth b, or their quivalents, block H, placed between the bars, forming drag bar a, and provided with two or nor holes for the purpose of adjusting the position of drill tooth or boot b, as and for the

urpose set forth.

Second, in combination with a seed-drill boot, held in position or operated by a spring, roviding said boot with suitable projections, and such projections with adjusting holes and in to retain the boot in position when in use in case said spring should by any means be endered inoperative, as and for the purposes set forth.

No. 35,635.—WILLIAM SOUTHWORTH, of Newcastle, Maine.—For Multiplying Camera.— Patent dated June 17, 1862.—This invention consists in so arranging the tube lenses as to mable them to be moved from one side of the camera to the other, and so that they can be aised or lowered in order to bring the picture upon different portions of the plate with the ad of a partitioned box for a diaphragm which moves with the lens. This diaphragm has a partition when more than one lons is used, and when placed in its socket moves with the enses and the light cannot reach the plate upon which the picture is taken, except through the spenures intended for the size of the picture. The diaphragm can be partially drawn out or slid back at the will of the operator.

Claim.—First, the device for moving the lenses, as described, namely, the raising or low-

ring the lenses by means of the holder B and catches F.

Second, moving the lenses from one side of the camera C to the other, to stops s s, by means of the slide A.

Third, the manner of excluding the light from the sensitive plate by the use of the parti-

tioned box or diaphragm D.

Fourth, the manner of constructing the same, so that it can be partially drawn out or slid back at pleasure.

No. 35,636.—J. H. THOMAS and P. P. MAST, of Springfield, Ohio.—Improvement in Seed Dalls.—Patent dated June 17, 1862.—This invention relates to the construction of the busing bar on the horizontal plate which is secured to the under side of the seed box for the purpose of holding the different slides by which the delivery of seed is regulated, and it con-tests in making this bar which extends the whole length of the seed box in one piece, the ane having been heretofore made in short sections which were secured separately to the bettom of the seed box. The loops or parts which hold the cut-off slide are also made in one piece with the housing bar.

Claim.—The plate B, provided with the projections c and loops g, the whole being cast in

are piece, in the manner and for the purpose set forth.

No. 35,637.—W. B. TREADWELL, of Albany, N. Y.—Improvement in Breech-loading Ordernee.—Patent dated June 17, 1862.—The breech-pin of the gun is of semispherical form, and provided with a projectile from the centre of its circle. On the sides of the gun are cast projections extending back of the breech-pin. The breech-pin is secured in place by means d a wrought-iron bail of curved form, its outer circumference pressing tightly against the cap or breech-pin, and its ends passing through and supported by the projection above men-

Claim.—The employment of the gun with concave breech in connexion with the convex breech-piece, the bail D, and the projecting pieces C C, the several parts being constructed and operating in the manner and for the purpose set forth.

No. 35,638.—C. D. VAN ALLEN, of Syracuse, N. Y.—Improvement in Churns.—Patent dued June 17, 1862.—In the centre of the churn between the dash rods are placed perforated movable partitions, and between these is a regulating slide having a handle that passes through the lid of the churn, so that when the slide is raised, the cream or milk will pass through the partitions. Upon the top of the churn is a butter tray provided with a slide for Passing the water and buttermilk from the butter.

Claim.—The combination and arrangement of the floats B B, the partitions F F, the regu-

lating slide C, and the butter tray H, when used for the purposes specified.

No. 33,639. -G. TRINK, of New York, N. Y., and L. HEITKAMP, of Brooklyn, N. Y.—
Jachine for Cutting Books in the Round.—Patent dated June 17, 1862.—This invention consists in combining in one machine a press suitable for holding a book and presenting the foot edge of the same to be cut and finished, with a rocking knife or a knife turning on its the cutting edge and polishing surface of which produces the finished concave of the

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front of the book. The back of the knife is smoothly finished and polished, and the surface of the front of the book, so that as it follows the rad of the knife edge, it is caused to smooth and polish the front edges of the leaves.

Claim.—First, a machine for cutting the fronts of books in the round, consisting the rocking knife suitable for cutting the round or concave of the front edge of the book in case bination with a press suitable for holding the book and presenting it to the action of the book substantially as described.

Second, in combination with a press suitable for holding the book, a convex policy, device, substantially as described, for the purpose of polishing the fronts of book 1 2

round, as set forth.

Third, in combination with a press suitable for holding a book and presenting the edge to be cut, a knife edge moving in the desired curve of the round, having combine the

it a polishing surface, substantially as described.

Fourth, in combination with a press suitable for holding and presenting the front detective book to be cut, the endwise motion of the knife and polishing device, whether call together or separate from each other, as described, when constructed and arranged to in the curve necessary to cut and finish the front of the book in the round, substantially described.

Fifth, in combination with a press suitable for holding the book, a knife, the cuting

of which travels in the desired curve of the round, substantially as described.

Sixth, in combination with a press suitable for holding a book and presenting it to be and a knife having a cutting edge moving in the desired curve of the round, a cutting to or other suitable surface, for the knife to cut against, substantially as described.

No. 35,640.—W. W. VIRDIN, of Baltimore, Md.—Improved Rotary Engine.—Patent and June 17, 1862.—In this machine the drum, which is stationary, while the cylindrical case enclosing it is rotary, is east in two sections, each of which contains one half of the anniesteam chest and one half of the steam passages. Each section is also east with one was of the chambers D and one fourth of the pistons c and m, so that when they are together the drum embraces one half of the said chambers and pistons. The annuar as chest lies near to and surrounds the eye of the machine, and the outer walls of the same chest as is practicable. If drum and cylindrical case are placed the one within the other, and there confined by any rings grooved on their inner surfaces to receive annular packing rings, which are rest against the surfaces of the drum and case by means of springs. In the groove formed by one of the annular rings and the flange of the cylindrical case is secured, by means of the rim of the wheel whose hub passes through the eye of the machine.

Claim.—The chambers D, when formed partly in the cylindrical case and partly in

drum, and when operating in the manner substantially as described.

Also, the peculiar arrangement of the steam passages a with respect to the annular of steam chest C and butments or pistons l and m, substantially as specified.

Also, the grooved annular packing ring f, as and for the purpose set forth. Also, the wheel J, when constructed and operating substantially as specified.

No. 35,641.—WILLIAM VOGT, of Louisville, Ky.—Mode of Fastening Shirt Stads.—Partiated June 17, 1862.—This invention consists in making a shirt button in two parts, which are held together by a spring by which the button may be securely attached to the shirt.—The application of the spring and lever to shirt buttons composed of two parts.

thereby preventing them from getting lost and facilitating the fixing of them.

No. 35,642.—W. B. Wadman, of Boston, Mass.—Improvement in Coal Sifters.—Puril dated June 17, 1862.—This invention consists in the arrangement of a rotary cylindrical intiting over a square projection on the upper surface of a handle, which oscillates on a properting from its lower surface, in combination with a barrel or cylinder provided all bottom with a flaring rim and bridge, forming the socket for the pivot of the handle in such a manner that coal and ashes thrown into the sieve may be conducted by the conical care to the perforated portion of the bottom of the sieve, and by the combined action of the call lating handle and flaring rim the coal may be readily sifted.

Claim.—The arrangement of the square projection b on one and the pivot c on the comparison of the handle E, in combination with the square socket c in the centre of the same and with the bridge D in the bottom of the barrel A, as and for the purpose specified.

Also, the conical cap d over the socket in the centre of the sieve E, as and for the purpose described.

No. 35,643.—SYLVENUS WALKER, of Boston, Mass.—Improved Clothes Wringer.—Pres dated June 17, 1862.—This invention consists in an arrangement of parts as designed the claim, and will be understood by reference to the engraving.

Claim.—The frame A constructed of two forked side pieces, and provided with curviflanches or guards d and ears or lugs g, in combination with the screws E E passing through the ears or lugs f of the sockets or bearings D D of the upper roller C, through

ears or lugs g g of the frame A, and through the springs F F underneath the ears or lugs g, all arranged as and for the purpose specified.

No. 35,644.—Job T. WILLIAMS, of Philadelphia, Pa.—Improvement in Lamp Reflectors. tent dated June 17, 1862.—This invention consists in the employment of a circular reflector mposed of an outer concave rim and a central convex projection, and provided with radial

s or corrugations.

Claim.—The reflector composed of the outer concave rim a and central convex projection and having radial ribs or corrugations, the whole being constructed and arranged as and

the purpose set forth.

No. 35,645.—JOHN E. WILSON, of Baltimore, Md.—Improvement in Apparatus for Defening Liquids.—Patent dated June 17, 1862.—This apparatus is composed of three tanks or ssels arranged one upon the other, the two upper ones forming respectively the receiver daller, and the lower one the reservoir, combined with which are suction and discharge es and a force pump, by means of which the liquid may be impelled through a suitable leng medium in a continuous circuit without coming in contact with the external air at y time during the operation.

Claim.—The combination of the reservoir A, receiver B, and filter C, with the suction and charge pipes g h, force pump and conducting faucet j, all arranged and operating in the unner explained, to defecate or cleanse hot or cold liquids, by forcing them in a continuous

muit without contact with the external air.

No. 35,646.—John Zimmerman, of Bloomfield, Pa.—Improvement in Lifting Jacks.— tent dated June 17, 1862.—This invention consists in the employment of two dogs ranged on opposite sides of the standards, and which are operated by means of a connecting land a sliding rod, the latter extending along the working lever to the hand of the operator. Claim.—The two racks b and c'in combination with the two dogs g and n, when arranged e on each side of the standard A, and operating substantially as described.

Also, the combination of the two racks b and c, the two dogs g and n, the connecting rod

and the operating rod D, as and for the purpose set forth.

No. 35,647.—A. I. Ambler, of Milwaukie, Wis., assignor to Himself, R. N. Ambler, d W. MARTIN, of the same place.—Improvement in Railroad Car Brakes.—Patent dated at 17, 1862.—This invention relates to a mechanism by means of which the brakes of a second connected cars may be simultaneously operated from the locomotive, either by steam by friction from one of the driving wheels thereof, each car at the same time being capable being operated by a brakeman as usual.

Claim.—First, the employment or use of a steam cylinder applied to a locomotive and conand with a revolving shaft M, substantially as shown, when said steam cylinder is used in abination with revolving brake rods Q attached to the cars on the trucks thereof, for the

rpose set forth.

scend, the employment of bent or angle levers with friction rollers to obtain perfect itemity of pressure, in combination with rods and chains, to connect the braking bars and th other when operated by a tumbling or revolving rod, substantially as shown, and for the pose set forth.

Third, actuating the brakes from the rotating rod Q through the medium of a crank V and tag m, arranged with a lever Z, or applied directly to the brakes so as to operate substantly as and for the purpose set forth.

found, the jointed shaft H', provided with the screw J', sliding spring rod I', lever K', or equivalent, and the worm wheel i" on the chain shaft j", all arranged as shown, for the These specified.

No. 35,648.—E. G. DYER, of Hamilton, Ohio, assignor to OWENS, LANE, DYER & Co., the same place.—Improvement in Threshing Machines.—Patent dated June 17, 1862.nvention relates to an auxiliary cleaning device to be attached to a common threshing chaning machine, and it consists in the employment of a suction wind tube or spout of om approximating an inverted U, the receiving limb of which is open at the bottom, and discharging limb opens into a draught chamber, from which the fan chamber draws its por of wind.

Usem.—The application to the grain delivery of a threshing machine of the winnowing tion spout E, in combination with the shoe fan, the whole being constructed, adapted, and

Third substantially as set forth.

No. 35,649.—MERWIN FOWLER, of Meriden, Conn., assignor to EDWARD MILLER, of Managed Language Spring Catch for Lamp Chimneys.—Patent dated June 17, 1862. invention consists in securing the chimney to the lamp top by means of a hook which stacked to the lamp top, and is provided with a spring so arranged as to cause the hook i'es upon the flanch of the chimney, and thus firmly secure the latter to the cone of the

Claim.—The combination of the hook C and spring d applied to the lamp top or burs substantially as and for the purpose set forth.

No. 35,650.—Charles Heath, of Malden, and Joseph Wilson, of Boston, admistrators of J. B. WILSON, deceased, late of Malden, Mass.—Improvement in Machine, Pressing Brick.—Patent dated June 17, 1862.—This invention consists in the combine of a short lever with sectoral toggles or eccentrics and two connecting rods extended such lever to a cross head or bar for the purpose of operating the follower of a back rewhich is forced against the brick so as to crowd it into the mould and firmly concest therein.

Claim.—The combination of the cranked lever or shaft K and the two connected: I I with the two sectoral toggles L M and the cross-bar G, the whole being applied was operate with the follower and the discharger of a brick press, substantially as specific

Also, the combination of the spring H with the bar G, the rods I I, the cranked state and the sectoral toggles L M, when employed for operating the follower or platen of 1.3 press, as specified.

No. 35,651.—E. C. Hussey, of Brooklyn, N. Y., assignor to Himself and John Dr. 4 of the same place .- Improvement in Machines for Making Elongated Bullets .- Pater: June 17, 1862.—This invention consists of a machine in which cylindrical blanks and from rods of lead, then brought to the desired external form for the bullets by a reliant cess, and afterwards drilled to produce the cavities in their bases.

Claim.—First, the combination of a straight groove e in a stationary flat table or be. a corresponding groove in a straight reciprocating bar or slide, such groove having able form and operating to roll the blanks of lead into shape by a movement aba: 🛥

own axes, substantially as specified.

Second, the combination with the grooved reciprocating bar or slide C and the stationery table or bed A of a cutter c, applied and operating, in connexion with the stationery table and table or bed, substantially as set forth.

Third, the combination with a bar or slide C a table or bed A and cutter c, open x4 described, of a feed bar E and an elastic feed lever D, applied and operating substant. I and for the purpose specified.

Fourth, the combination with the grooved table or bed A and the grooved bar of one or more pairs of holding dies, and a corresponding number of drills applied to the the rolled bullets from the said grooves and drill the cavities in their bases, substantate specified.

Fifth, the dies F G, constructed, combined, applied, and operated substantially is a

for the purpose specified.

Sixth, combining the die carriages H H with the reciprocating feed bar E by mant grooves q q and switches J J, substantially as and for the purpose set forth.

No. 35,652.—I. S. and J. W. HYATT, jr., of Chicago, Ill., assignors to said I. S. End and OLIVER BASCOM, of Whitehall, N. Y .- Improvement in Knife and Scissors Sharpenne Patent dated June 17, 1862.—This invention is designed as an improvement upon the 🛂 patented to the said I. S. and J. W. Hyatt, jr., February 19, 1861, and it consists use of a stationary rest for guiding and sustaining the blades of shears and scissors proper angle, in connexion with a grinding wheel for sharpening the same, the same to enable both common shears and sheep shears, which are respectively. at opposite angles, to be sharpened on the same machine. Combined with the sc.ss : " either double or single, are twin grinding wheels which are kept together by a size of so arranged as to admit of the sharpening of both knives and scissors by the same and scissors by

Claim.—First, the combination and arrangement of the double rest d d' and ;---

wheel C, substantially as and for the purpose specified.

Second, the combination of the scissors rest D, either double or single, with the grinding wheels C C' kept in contact by a spring, or its equivalent, the whole is --machine for sharpening both scissors and knives, substantially as described.

No. 35.653.—J. H. MEARS, of Oshkosh, Wis., assignor to Himself and Alfred W. of the same place.—Improvement in Rakes for Harvesters.—Patent dated June 17. "-This invention consists in hinging the rake to a ring or short sleeve used in conner a ri a pinion and two bevel wheels, the pinion gearing into and between both wheels, are quently turning them in contrary directions. The lower wheel turns on an upright and the contrary directions. and has a sleeve surrounding the said spindle and extending up through the upper wheel, the ring hinged to the head of the rake, and also through certain saucer-size or caps, the latter having slots cut in and across their edges, or a part cut away. 11. bevel wheel has an upright rim attached to its outer and upper surface with one slots. The parts are so arranged that the rake will, in an elevated state, move toward if necessary, strike down in a slanting direction under the bar of the reel, and sace. grain from the platform, keeping in close contact therewith while so doing, after which is raised to its original working point in an elevated position.

Claim.—First, the wheel H constructed with an upright rim having slots, substantially as and for the purposes set forth, in combination with wheels C c, sleeve D, spindle V, caps B and R, posts or springs U and W, and rake N, all constructed and arranged substanually as set forth.

Second, the caps B and R, or their mechanical equivalent, attached to the sleeve D of bevel wheel C, turning in a contrary direction from wheel H, constructed and operating

in combination with rake N, substantially as and for the purposes set forth.

Third, the mechanical arrangement of rake N, with its ring or short sleeve L, with gear wheels H and C, and their attachments, whereby one wheel causes the rake to move toward the reel in an elevated state, and the other in a contrary direction, causing it to sweep in close contact with the platform, substantially as set forth.

No. 35,654.—J. E. SEAVEY, of Kennebunkport, Me., assignor to Himself and MATTHEW E. BOCHNER, of the same place.—Improved Sail Link to Mast Hoop.—Patent dated June 17, 1802.—This invention consists in the employment of a shackle which is connected to the bead of a screw bolt by a hinge, the said bolt screwing into a crescent-shaped clasp which extends across the inner surface of the hoop.

Claim.—The mast hoop and sail connexion, consisting of the shackle, the bolt, and the casp, constructed, arranged, and combined together, substantially in manner and so as to

operate as specified.

No. 35,655.—Charles C. Stansell, of Middleboro', Mass., assignor to Himself and A. W. Rockwood, of Newton, Mass.—Improvement in Lamps.—Patent dated June 17, 1862.— This invention consists in combining with the wick-tube and the flame-adjuster of a lamp, a vapor intercepter and conduit whereby the vapor generated by the heat of that part of the wick-tube which extends within the oil reservoir may be intercepted and conducted to the flame to be burnt thereby. Combined with the above is also a heat-insulator by means of which the heat of the Lame-adjuster may be insulated more or less from the vapor interceptor. The insulator consists of a hollow vessel made of glass of a bulging or conical form, and provided with two open necks, so that it may be fitted to the vapor-intercepter and the flame-adjuster.

Claim.—Combining and arranging with the wick the wick-tube B and the flame-adjuster I of a lamp, in manner substantially as described, a vapor intercepter F and conduit or passage G, the same being substantially as and for the purpose above explained.

Also, combining and arranging with the flame-adjuster and the vapor-interceptor and conduit, as described, a heat-insulator or insulating vapor-reservoir, made of a material and so as to operate in manner and for the purpose substantially as specified.

No. 35,656.—J. C. Tobias, of Middleport, Ill., assignor to Himself and Henry C. Kirk. of White County, Ind.—Improvement in Harness Saddles.—Patent dated June 17, 1862.—This invention consists of a saddle or pad tree made in two parts, each part composed of two plates secured to each other by the screws of the terrets, and having between them a pad, the covers of which lap over the edges of the lower plate. The two parts are connected to each other by means of a curved link, the ends of which are secured in slots in each upper saddle plate, which connexion admits of a yielding to the movements of the animal in travelling, and readily conforms to his shape.

Claim.—As an improved article of manufacture, a harness saddle or pad tree, composed of plates A B, pad C, and cover f, made and united in the manner shown and described.

No. 35,657.—JOHN H. VICKERS, of Worcester, Mass., assignor to LUCIUS W. POND, of the same place.—Improvement in Revolving Fire-arms.—Patent dated June 17, 1862.—This prention consists of a revolving fire-arm formed of a continuous frame rigidly attached to the barrel enclosing the cylinder lengthwise, and pivoted to the stock in such a manner as to enable the rear part to fold into the breech-piece, and to form a recoil plate independent of the breech-piece for relieving the breech-piece of the strain of the recoil, the said frame allowing the cylinder and breech-piece to be separated for the introduction of the cartridges into the chambers at the rear thereof. In combination with the continuous frame, the cylinder axis is so applied as to pass through the frame and cylinder from front to rear, and enter a hole in the breech-piece in such a manner as to secure the said frame in proper con-Prion with the breech-piece.

Claim.—The continuous cylinder frame A, rigidly attached to the barrel, and combined with the breech-piece D, to fold into a groove provided therein for its reception, substantially

and for the purpose specified.

Also, bridging the lower front angle of said continuous frame A to a portion c of the stock frame which projects forward from the bottom of the breech-piece D, substantially as specified. And also, the insertion of the cylinder axis pin, in a forward direction, through the cylinder frame and cylinder, and into a hole into the centre of the breech-piece, substantially as and for the purpose specified.

No. 35,658.—S. R. Going, of Brooklyn, N. Y., assignor to D. S. Quimby and D. S. Quimby, jr., of the same place.—Improvement in Stoves.—Patent dated June 17, 1862.—This invention consists in applying to the under side or bottom flue of the oven, a graduated slide damper provided with several holes, the largest ones being in front and gradually decreasing in size to the rear end of the oven, for the purpose of producing an equal amount of heat in and around the oven.

Claim.—First, the manner of equalizing the heat of the fire in and around the over

by means of a damper, as set forth.

Second, placing the damper B in the flue in the position shown.

Claim.—Asphaltum for the purpose of filling shells, substantially as set forth and described

No. 35,659.—ALFRED BERNEY, of Jersey City, N. J.—Improved Composition for Filing Shrapnell and other similar Projectiles.—Patent dated June 17, 1862.—This invention consists in using the residue from the distillation of coal tar, generally known as asphaltum, instead of sulphur, for filling shells.

No. 35,660.—H. F. Adams and William Berry, of Syracuse, N. Y.—Improvement is Kerosene Lamp Burners.—Patent dated June 24, 1862.—This lamp is designed for burning kerosene oil without a chimney; and the invention consists of a wick-tube surrounded by a conically shaped cover, so as to form an air chamber, secured to the screw top of the lamp by radial arms for the purpose of admitting the free passage of air. Around the bottom of this cover is a concave flange, which serves to gather the air. Near the top of the wick-tube air passes directly to the flame. A smaller cap is placed over the upper part of the wick-tube.

air passes directly to the flame. A smaller cap is placed over the upper part of the wick-tube Claim.—The combination of the large concave flange F and conical air chamber A, having bottom openings as described, with the small concave flange R enclosed within the cap C, and said flange R being constructed with peculiarly formed centre and outside openings, as specified, and the whole being combined and arranged specifically as described and for the

purposes set forth.

No. 35,661.—JOHN ALLEN and EDWARD PICK, of Brooklyn, N. Y.—Improvement is Ovens.—Patent dated June 24, 1862.—This invention relates to improvements in the class of ovens known as "reel ovens," and it consists in the use of a draught and steam fire opening from the mouth of the oven instead of a draught opening in the top of the baking chamber, as is usual in this class of ovens. With the baking chamber are combined two outlets or draught flues opening from opposite sides of the oven at an elevation above the floor and below the mouth of the oven, the said flues being connected with the chimney by flues passing upwards through the exterior walls of the oven. Between the fire-box and the baking chamber is arranged a double series of horizontal flues for the purpose of more thoroughly heating the lower part of the oven.

Claim. First, the draught and steam flue opening from the mouth of the oven when combined with a baking chamber suitable for and containing the reel apparatus and bake pans,

substantially as described.

Second, the side draught flues in combination with the baking chamber of a reel oven, when opening below the mouth of the oven and above the floor, substantially as described. Third, the double series of horizontal heating flues in combination with the furnace and floor of a reel oven, constructed and arranged substantially as described.

No. 35,662.—George Archer, of Massillon, Ohio.—Improvement in Combined Honds and Fifth Wheel.—Patent dated June 24, 1862.—In this device the hounds and lower section of the fifth wheel are made of iron in one piece. The hounds are separated at the forward end for the admission of the tongue. The upper section of the fifth wheel is bolted to the bolster and to the reach. Upon the forward and inner end of the lower section is secured an iron clamp, which hooks over the inner edge of the upper section so as to keep the two sections in contact.

Claim.—The described special construction and arrangement of the hounds and fifth wheel

when combined and operating conjointly as specified.

No. 35,663.—S. A. BAILEY, of New London, Conn.—Improved Rollers for Wringing Machines.—Patent dated June 24, 1862.—Over a square wrought-iron shaft is placed a wooden cylinder of a larger internal diameter than that of the shaft, which cylinder is provided with a series of longitudinal slots or openings, thus forming a series of yielding slats when pressure is applied. These openings and the space between the cylinder and the shaft are filled with India-rubber; the outside of the cylinder is also covered with India-rubber; and the whole being subjected to heat, becomes united and forms a solid mass, the object being to form an elastic rubber cylinder which will not turn or become displaced upon the shaft.

Claim.—First, the employment of the wooden or metal cylinder B, constructed in the man-

ner and used for the purpose specified.

Second, the use of the rubber packing between the slats of the cylinder and the shaft A for the purpose of supporting said slats, as is fully set forth.

Third, connecting the external rubber with the rubber between the slats and the shaft through e interstices or openings in the cylinder, substantially as and for the purpose specified.

No. 35,664.—JAMES R. BAKER, of Kendallville, Ind.—Improved Mode of Removing Chimys and Filling Lamps.—Patent dated June 24, 1862.—The nature and object of this ination will be understood from the claim.

Claim.—The a saching of the annular plate D, which has the cone or deflector E and anglit chimney secured to it, to a sliding tube C fitted in the burner A, and provided with hole or opening b, substantially as shown, to serve the double purpose of a guide and filling be, and admit, by the raising of the tube, of the wick being lighted and the lamp filled shout detaching the chimney from the burner or the burner from the lamp, as set forth.

No. 35,365.—WILLIAM BALLARD, of New York, N. Y.—Improved Metallic Defensive rmor for Ships.—Patent dated June 24, 1862.—The framing of the vessel is composed of avy wrought bar or plate iron and interposed frames of timber of the form required for the insperse section of the vessel. The armor is composed of several layers of plates, three of hich are of flat bars of iron of different thicknesses, and the fourth or outer one of plates a large size. In the second and third layers the bars are applied diagonally so as to cross ch other.

Claim.—The combination of iron frames A A, interposed wooden frames B B, longitudinal vering bars or plates C C, reversed diagonal bars or plates D D and E E, and covering sets F F, substantially as and for the purpose specified.

No. 35,666.—JAMES BECK, of New York, N. Y.—Improvement in Pliers for Closing Skirt Asps.—Patent duted June 24, 1862.—This invention consists in fitting the jaws of a pair pliers with a flat male die and a concave rounded female die, so that in closing a metallic it clasp upon the hoop, the lips of the clasp are brought tightly upon the hoop. The dies stranged in an oblique position relatively to the length of the pliers for the purpose of abling both the hoops and tapes to pass the jaws in the operation of closing the clasp. Claim.—First, the combination in the pliers of the flat male die a and the concave rounded male die b, substantially as specified.

becond, the arrangement of the dies obliquely to the length of the pliers, substantially as

d for the purpose set forth.

No. 35 667.—SOLOMON E. BLAKE, of Worcester, Mass.—Improvement in Folding and uking Gauges for Sewing Machines.—Patent dated June 24, 1862.—This invention conts in so constructing and combining the parts, constituting a gauge for folding linen, cotland other material to be sewed into tucks, folds, or plaits, as that, while capable of ad-tment to admit of the production of folds or tucks of various widths and at various dis-cess apart, it shall afford the necessary facility for unfailingly guiding the material while ing sewed, and at the same time permit the parts being brought into operative condition ation to each other without too great friction or strain upon the cloth, thereby rendering work not liable to be disarranged before being brought under and across the path of the

Claim.—The apparatus described as an attachment to a sewing machine for automatically ding or plaiting the material to be sewed, the same consisting of the following elements

First, an adjustable gauge for the determination of the distances from fold to fold, and by uch the material to be folded and sewed is guided to the sewing mechanism as described. Second, two folding blades, either or both of which are movable within planes parallel, so te allow of their adjustment in relation to each other and in relation to the gauge, as deribed.

Third rollers so hung on spindles fixed to or in folding blades as that the edge of said foldg blades shall impinge upon the said rollers, substantially as described.

No. 35 668.—A. B. Cass, of Muscatine, Iowa.—Improvement in Cultivators.—Patent and June 24, 1862.—This machine is composed of a rectangular frame mounted on wheels d provided with share standards fitted upon pivots, and connected at their upper ends by a ba-bar, to the centre of which is attached a jointed lever. At the rear end of this lever is toted another lever fitted within a curved guide attached to the rear of the frame. This ter lever passes up :hrough the driver's seat, so that the driver can operate it by pressing back against it, which causes the shares to be raised above the surface of the ground and iders the implement inoperative. By having the lever jointed the shares may be made to aform to the irregularities of the rows.

Claim.—The protted share standards a^* a^* and sliding share standards g g, connected to sliding share standards g g, connected to a constraint of the seat H and lever F, connected to a

For E' and the seat support I, all arranged as and for the purpose specified.

No. 35,660.—N. B. CLABAUGH, of Frederick City, Md.—Improved Washing Machine.—
atent dated June 24, 1862.—This invention consists in the employment of a cylinder; the

ends of which, at their peripheries, are cut in the form of arcs of circles, which are eccentric to the axis of the cylinder, and upon which are secured rubbing boards having comgated faces. In the sides of the tub and passing under the cylindrical rubber, is arrangely a curved weighted rubber-board composed of a series of rubbing plates, each of which place is formed of a series of ribs increasing in height from one to the other downwards.

**Claim.—First, a rubbing cylinder B armed with eccentric rubbers C, in the manner and the control of

for the purpose set forth.

Second, a rubbing board H, having its rubbing plates H' formed with a series of ribin h2, h3, and h4, of increasing height, in the manner and for the purpose specified.

Third, a rubbing cylinder B in combination with a rubbing board H, substantially it manner and for the purpose set forth.

No. 35,670.—J. D. COCHRANE, of Milford, N. H.—Improved Clothes Wringer.—Pair dated June 24, 1862.—In the upper ends of the standards are secured the journals of 2 lower roller, to one of which journals the crank is attached. Above this roller is a seeroller, the journals of which turn in the upper ends of spring arms attached to the standard. The pressure of the upper roller is adjusted by means of spiral springs upon pins attached. the standards and operated by means of thumb-nuts.

Claim.—An improved clothes wringer, the various parts of which are constructed orbined, and arranged to operate in relation to each other substantially as shown and describe-

No. 35,671.—E. M. CORBETT, of New York, N. Y.—For Camera Stand.—Patent dad June 24, 1862.—This invention consists in the arrangement of two diagonal frames correct together so as to operate similarly to the "lazy tongs," and hinged at their opposite etc. the rising and falling platform which supports the camera, and to the stationary and the stand, in combination with slides, which permit the said diagonal frames to some themselves according to their higher or lower position in such a manner that the platform with the camera can be raised or lowered in parallel planes, and the same firmly supported front and rear in whatever position it may be brought. In connexion with the above is wedge-shaped hinged slide moving in grooves in the sides of the platform for the purpose adjusting the inclination of the camera.

Claim.—First, the arrangement of the diagonal frames E E', connected together by piral a on the principal of lazy tongs, in combination with slides fg and with the movable of form B and stationary top C, the latter being supported by three legs D, substantially the manner and for the purpose shown and described.

Second, the employment of the wedge-shaped hinge slide H, guided by grooves O in . side flanges n of the platform B, as and for the purpose specified.

No. 35,672 —HERBERT CURTIS and ALFRED TUFTS, of Charlestown, Mass.—Input ment in Sweat-leather Ventilators for Hats.—Patent dated June 24, 1862.—The lower part the sweat-band is made to encompass a thin flexible band or annulus made of spring to the outer surface of which the lower ends of the inner legs of thin steel springs and These springs are arranged within the air space between the body of the had the sweat-band, and have their lower ends fastened to the hat-body. When the hat-body thin and flexible, a secondary hoop or annulus of a larger diameter than the other is a ployed, and made to fit closely into the open end of the hat-body, to which the lower parts

the outer legs of the several springs are to be fastened.

Claim.—The combination and arrangement, substantially as described, of a flex. nulus, or thin metallic hoop a, and a series of springs D with the sweat-band B and series

ventilating space C, the whole being for the purpose or purposes specified.

Also, the combination of the secondary or holding hoop or annulus b with the serve springs D, the flexile annulus a, and the sweat-band B, to be applied within a hat the and with a ventilating or air space C between such body and band, substantially as special

No. 35,673.—R. D. Dodge, of Adel, Iowa.—Improvement in Cultivators.—Patent in June 24, 1862.—The object of this invention is to connect the ploughs of a cultivator to the connect the connect other and to the main frame, so that each plough can accommodate itself to the inequal of the ground independently of the others, and that a side motion can be imparted: ploughs, or to a portion of them, so that in the process of cultivation, both sides of w can be reached as close to the plants as may be desired.

Claim.—The arrangement of the stirrups b, connecting the front ends of the bear ain combination with the treadles e, hand-levers k, and guide-bars m, all constructed in

operating in the manner and for the purpose shown and described.

No. 35,674.-W. H. DOANE, of Cincinnati, Ohio.-Improved Barrel-head Circles 19 Bevelling Machine.—Patent dated June 24, 1862.—The nature and object of this inverwill be understood from the claim.

Claim.—First, so arranging the feed or driving shaft and the pulleys thereon, relative the saw arbor frame, that the movement of the saw arbor frame will cause the belt to disfrom the fast to the loose pulley, and vice versa, and thus cause the saw to be put in or

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tion by its movement to the work, and out of operation by the opposite movement of said frame, substantially as described.

Second, the manner of making the disk or clamp self-yielding on different parts of its clamping surface, by means of yielding pins or projections, so that it will adapt itself to pieces of heading of uneven thickness, and hold them firmly while being cut, substantially as described.

Third, the angular connexion sliding-bar and slotted slide with prongs, operated with or without the foot lever, for drawing the prongs back out of the way, so that the heading may evolve when clamped and the feed started, and for producing a last motion, substantially as set forth.

Fourth, making the lower half the box or bearing $l\ l'\ l''$ which supports the worm shaft on the inside of the structure A hollow, so that it may be filled with oil for the worm to run in, and arranged inside of the hollow pedestal, thus preventing friction and wear, and insuring labrication, substantially as set forth.

Fith, arranging the heading-supporting prongs as described, and also the gearing and shafing within the conical structure, entirely out of the way, and substantially as described. Note, the combination of the inner bevelling tools j of a heading machine with the flat-lead wedge screw bolts j' and their nuts, substantially in the manner and for the purpose lescribed.

No. 35,675.—EDWIN S. GAYLORD, of Hartford, Conn.—Improvement in Mica Chimneys for Lamps.—Patent dated June 24, 1862.—This invention consists in the use of mica as a material for lamp chimneys, provided with compression rings at the upper and lower ends and slateral joint bar, made single or in the form of a double-S clasp, to hold together the edges of the mica.

Claim.—As a new and improved article of manufacture, a mica chimney for lamps, &c. The combination of mica a from compression rings c and a lateral joint bar b or double-S lasp b, substantially in the manner as and for the purpose described.

No. 35,676.—DAVIS and JOSIAH GRAY, of Wayland, N. Y.—Improvement in Azle Skeins.—Patent dated June 24, 1862.—This invention consists in making the skein of a cast-steel skein the inner end bevelled off to form a projecting tongue on the under side, and sufficiently thin to yield readily to compression, and then confining it to the axle by the same appropriate the arms or reach to the axle.

Claim.—The combination of a hollow steel axle skein, constructed substantially as dembed, with the arm or reach clip, so constructed and arranged on the axle as to grasp and compress the sides of the skein, and thus hold it firmly to the axle.

No. 35,677.—JAMES GREAVES, of Utica, N. Y.—Improvement in Pumps.—Patent dated use 24. 1862.—In this pump the barrel and valve seat are made in one piece, of stone-rate or other material, and secured to an iron flange, it being designed to prevent the water um freezing. The claim sets forth a series of devices composing the various parts of the umb.

Claim.—First, making the barrel A with the exterior enlargement B and valve seat L in nepiece; the washer D, as used in combination with the enlargement B and flange C; the cat-valve 2, water-chamber B, and small pipe S, as constructed and combined with barrel and pipe 3; the lead lining 4, or equivalent; fastening the flange F to the wood pipe E; be combination of the flange G with the pump H; the iron bottom O O, as made and comted with the wood H; the ornamental cap I, as constructed and covered with the metal P; remulator No. 2, as constructed and combined with the pump H; the plunger No. 3, as negative eat outer edge, and riveting it to said seat; the washer 5, as fastened with screws 66 in the seat 2.

Necond, the rubber strips 2 2 2 2 No. 4, or equivalent, as combined with the shaft 1 and rap 3; joint 6, as constructed and combined with strip O and projection 7; the guide 8 and its lining of leather, or equivalent, all as and for the purpose described.

No. 35,678.—JOSEPH HARRISON, jr., of Philadelphia, Pa—Improved Device for Removing restations from Steam-boilers.—Patent dated June 24, 1862.—In preparing the boiler for stamp, the bolt used in holding the units together, as described in the patent for steam-boilers.—Justed to the said Harrison on October 4, 1859, is taken out at the required point, and into sence of the units is introduced a metallic tube. At a short distance from the end of this like is cut a tranverse slot, in which is placed an iron bar a about an inch in thickness and which as the outside diameter of the tube, and which moves upon a pin at its centre, monbeing communicated by means of a bar B and connecting links c. The ends of the control of the units.

Chim.—The combination of the tube A with the rod B and the bar a and the cutters and whereby the cutters, which are to operate inside of a steam chamber, may be introduced wough an opening of a smaller diameter than that of the chamber itself.

No. 35,679.—M. HARTER, of Independence, Iowa.—Improvement in Evaporating & charine Juices.—Patent dated June 24, 1862.—This invention consists in the arrangement of secondary fire-door under the finishing pan, which is placed lower than the first or the densing pan, and communicates with the same through a grate in combination with one mon flue, and with a damper between the two doors in such a manner that by said eccon.it fire-door and by the aid of the damper, thehe at under the finishing pan can be regulate a pleasure without interrupting the action of the main fire on the first pan. The finishing is in provided with a rotary agitator, consisting of a series of floats attached to arms exist if from a rotary shaft, for the purpose of preventing the burning or overheating of the cover the first pan is placed a convex cover, which serves to collect and carry off the convex cover. densed steam, and also aids in facilitating the evaporation.

Claim.—First, the arrangement of the secondary fire-door F in the side of the flucombination with the damper G placed between the door F and the main fire door D. with the pans A B, all constructed and operating in the manner and for the pulpe

described

Second, the employment or use of the rotary agitator H in combination with the evap-us

ing pan B, as specified.
Third, the arrangement of the convex cover I in combination with the pan A, as and the purpose set forth.

No. 35,680.—B. and E. HAWORTH, of Ridge Farm, Ill.—Improvement in Sugar (strippers.—Patent dated June 24, 1862.—This invention consists in the employment of series of cutters or strippers arranged and fitted in a frame in such a manner as to be cape ble of adjusting themselves to cane of different thicknesses, and also to suit the variation thicknesses or taper of each individual stick or cane as the latter is drawn through or but well them and the leaves stripped therefrom.

Claim.—First, the employment or use of cutters or strippers, formed of plates $c \in \mathbb{R}$ latter being allowed to yield or give under pressure, and both fitted in a suitable fram A one over the other, and curved at one end in semi-elliptical form, substantially as shows.

operate as and for the purpose set forth.

Second, in combination with the strippers B C, the supplemental or auxiliary strippers applied to the frame A, and arranged, substantially as shown, to operate, in connexion 🕶

the strippers B C, as set forth.

Third, the manner as shown of securing in the frame A the plates c c' of the strippe: \mathbb{R}^{q} and likewise the manner of attaching to said frame the supplemental or auxiliary stopped to wit, by having the plates c c' fitted in taper recesses b in the frame, so that the pass may be fixed, and the plates c' allowed to yield or give under pressure, and the striplet formed at the inner ends of the plates D, which cover the recesses b, whereby the striplet may be very readily applied to the frame A, and detached therefrom when necessary is: purpose of repairs, the substitution of new ones, &c., &c.

No. 35,681.—V. W. Houck, of Buffalo, N. Y.—Improvement in Stave-dressing Machinet-Patent dated June 24, 862.—The upper guide-feed roller E is made in two equal party placed upon the shaft as to leave a narrow space between them, in which space is party guide stop S, so constructed as to be capable of being turned on the shaft and fixed same, when desired, by se screws. This stop is made yielding by means of a coiled sy so as to adapt the machine to jointing staves of greater length than the circumference . guide-feed rollers.

Upon the feed table is ar anged a side guide piece U having a curvature corresponding that of the edge of the stave when "listed," and connected to the side of the feed rough cam W, which, as the feed roller revolves and draws the stave in, will strike an arand draw the guide away so as to allow the centre of the listed stave to pass the point guide piece. Upon the end of a shaft having a central support in the main frame is a ... of peculiar shape, with which is combined a horizontal bar, a vibrating rod, and a far wheel, against which latter the cam revolves, and thus transmits its motion to the gate thence to the cutters, so that at each revolution of the cam two up and two down up. will be given to the gate and cutters, the object of the combination being to carry the so quickly across the transition point as to joint the bilge of the stave on a true curv Supported upon cross-bars between the third and fourth pairs of feed rollers is a curreplate, its longitudinal curve being that of the bilge of the barrel. It is fluted exactly x with the lower feed rollers, so that the stave will pass in a direct line, and be heal t action of the jointers without any side slip.

Claim.—First, the adjustable and yielding guide stop S, in combination with the greed rollers E E', for the purposes and substantially as described.

Second, the yielding guide piece U, in combination with the cam W, for the purposes a substantially as set forth.

Third, the cam P, in combination with the bar P1, arm P2, friction wheel p4, and vi-

tod p³, and rack shaft O, for the purposes and substantially as set forth.

Fourth, the curved bed plate K having flutes exactly corresponding to, and placed in ...

with, those of the lower feed rollers, for the purposes and substantially as described.

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No. 35,682.—CHARLES HOWARD. of Morris, N. Y.—Improved Washing Machine.—Patent isted June 24, 1862.—Within a semi-cylindrical trough or box are placed two disks having prugated faces, and secured each to a separate shaft. In standards projecting upwards rom the ends of the box is placed a shaft, to opposite sides of which are secured arms conected with pitmen, the other ends of which latter are attached to the disks. The articles to washed are placed between the disks, and motion is given to the latter by means of a andle upon the upper shaft.

Claim.—The combination of disks B B on separate shafts, connected to the arms D D by nears of the pitmen F. F, whereby both disks are moved in opposite directions by one nation of the hand operating on the handle E, as described.

No. 35,683.—Mrs. Isabella J. H. Howard, of San Francisco, Cal.—Improvement in thdominal Supporters.—Patent dated June 24, 1862.—The nature of this invention will be

inderstood from the claim and engraving.

Claim.—The arrangement of the comparatively hard and yielding pads a and c c, the rangular spring c, the strap b, the pad d, the elastic straps g g and h h, and the buckles i i ad j j, substantially in the manner and for the purpose set forth.

No. 35,684.—CHARLES A. HUNT, of Urbana, Ill.—Improved Clothes Dryer.—Patent dated lune 24, 1862.—To a sliding bar, which may be either fixed to a wall or upon a pedestal, is stacked a heel hinge, which supports a box hinge having projecting lips, between which we first wooden fingers for holding the clothes, and which project radially, and admit of being moved laterally and folded together when not in use.

Claim.—The combination of the pedestal or slide bar C with the hinges D E and fingers a, manged and operating substantially as and for the purpose specified.

No. 35,685 .- P. J. JARRE, of Paris, France. - Improvement in Repeating Firs-arms, - Patent and June 24, 1862.—The trigger is provided with a cogged segment which meshes into rack on the under side of the slide piece b. This slide piece has a reciprocating movement a grooved guide, and carries a hook projecting from above its upper surface, which is add in an elevated position by means of a spring; it also carries a spring blade, which is keigned to produce the progressive movement of the breech bar. Between the gun lock and the rear end of the barrel is a guide bar, which is furnished with a ring interposed to start context between the orifices of the breech bar and that of the barrel and provided scure contact between the orifices of the breech bar and that of the barrel, and provided the projections to allow the escape of the gases caused by the ignition of the powder large the act of cocking, so that numerous successive discharges of the gun may be faced without heating the barrel. The breech bar is of rectangular form, and is provided with cylindrical openings to receive the cartridges. One of the sides of the breech bar consists of a movable face plate pivoted at one corner, so that by turning the plate the orifices of receiving the cartridges will be disclosed. In the under face of the breech bar are cams the cartridges for the nurrouse of baing sated mean by a service in the slide h rincined planes for the purpose of being acted upon by a spring in the slide b.

Claim.—First, the combination with the trigger a of the slide piece b when the latter is ranged in relation to the hammer and the breech bar, so as to actuate them to operate by

be pulling of the trigger, in the manner and for the purpose set forth.

Second, in combina ion with the adjustable breech bar, constructed and operating as secret, the packing ring r, when located between the breech bar and the rear part of the and, and when arranged substantially in the manner and for the purposes set forth.

Third, the construction and arrangement of the breech bar, the same consisting of a series carridge chambers, set in a slide frame, provided with suitable cams, in combination with movable rear plate, latch, and other essential appurtenances, as described.

No. 35,686.—George B. Jewett, of Salem, Mass.—Improvement in Artificial Legs. event dated June 24, 1862.—This invention consists in the employment of a rigid exterior Sent dated June 24, 1802.—Inis invention consists in the carried of some soft material, the carried in combination with a removable interior socket, made of some soft material, the carried to suit the varying size and form of the stump. The um and size of which may be varied to suit the varying size and form of the stump. The is connected to the foot by means of a pedestal secured firmly to the leg, and hinged to be lost in such a manner that any required change in the length of the leg or the position the foot may be readily made, and either the leg or the foot may be replaced without the eceuity of constructing the entire limb.

Claim.—First, the rigid socket A, in combination with the removable socket C, operating atte manner substantially as described.

Second, connecting the socket with the foot by means of the pedestal E, having an diusable connexion with the socket, and being hinged to the foot as described, for the ²Ipose specified.

50. 35,687.—Algernon K. Johnston and Lorenzo Dow, of New York, N. Y.-Processes in Rendering Cartridges Water-proof.—Patent dated June 24, 1862.—The postances employed in this invention are such as are formed by the action of nitric acid the or in combination with sulphuric acid; or by the action of any nitrate alone, or in the product of the p embination with sulphuric acid or vegetable matter, as cotton, flax, &c., or on the product

of vegetable matter, as sugar, &c., always dissolving the substance so formed in its proper solvent, which is generally alcohol or ether, or a combination of the two.

Claim.—The application of the said substances and solutions, or any of them, collector, &c., to the envelope of a cartridge, for the purpose of water-proofing the same, substantialy as above described.

No. 35,688.—B. F. JOSLYN, of Stonington, Conn.—Improvement in Breeck-Loading Fire arms.—Patent dated June 24, 1862.—This invention relates to an improvement in a breech loading fire-arm, for which a patent was granted to the said Joslyn October 8, 1861, accommission in the employment of a curved wedge-formed projection combined with and arrate. upon the movable breech of the said fire-arm, so that the metallic cartridge may be parwithdrawn from the barrel during the act of throwing back the movable breech

Claim.—The curved wedge-formed projection x, combined with and arranged on the ast-

able breech B, substantially as and for the purpose set forth.

No. 35,689.—ELIJAH KEMPER, of Thorn Township, Ohio.—Improvement in Gate.-Patent dated June 24, 1862.—This invention consists in hanging a sliding gate upon an arm by means of a hinged piece, so arranged that the gate may be slid back and bring equ parts, or nearly so, of its length each side of the axis, upon which it may then be turned with facility to swing out of the way. The gate is also provided with a sliding latch, so arranged as to admit of being slid forward to support the gate when closed, or slid back out of the way when necessary.

Claim.—First, the combination with a sliding gate of the hinged or pivoted piece 22 is parts being arranged in such a manner as to operate as set forth, and secure the advantage

stated.

Second, the combination with a sliding and hinged gate, as above described, of a sliding latch 12, substantially as and for the purposes set forth.

No. 35,690.—NEHEMIAH KIMBALL, of Pascoag, R. I.—Improved Self-Setting Head-Blad for Saw Mills.—Patent dated June 24, 1862.—This invention consists in the combinate and arrangement of a series of devices, as stated in the claim, by means of which the

block is caused to traverse the log and automatically set the same.

Claim.—The combination and arrangement of dog F, carriage E, with rack I, pinion J. shaft K, ratchet L, pawl M, link N, slide P, bent lever R, and stop pin V, the whole beng

constructed to operate as described for the purpose set forth.

No. 35,691.—J. H. KNICKERBOCKER, of Philadelphia, Pa.—Improved Method of Security Tubes in Tube Sheets.—Patent dated June 24, 1862.—This invention consists in the empty ment of a ferrule, having a concave outer surface of slightly tapor form and of such diamest that it may be driven into the flue and expand the end of the same, so that it will close say? around the hole made in the tube sheet to receive the flue, and form a tight and permuse connexion of the flue to the tube sheet.

Claim.—Securing the flues B of boilers in the tube sheets A thereof, by means of the in rules C, grooved at their exterior, tapered, and driven in the ends of the flues so as to case the ends of the same to close around both edges of the holes a in the tube sheets, and she

of the flue being of equal diameter throughout, as set forth.

No. 35,692.—HENRY KNIGHT, of Jersey City, N. J.—Improvement in Machines is Moulding Coment Pipe.—Patent dated June 24, 1862.—This invention consists in the care bination of a centrally perforated table, an intermediate centrally perforated and movels platform, an adjustable mould or flask, and adjustable base-supporting and centring plate justable core and a jack screw, all so arranged and operated that a cement pipe, with a squit socket in one end, is produced without the necessity of lifting the mould and pipe above With the above is also combined a railway and track, so that when a pipe has lest moulded it may be lowered while in the mould upon the truck and run out to a position when lifted off the machine. With the hard shoulder or enlarged base of the core is combined pliable washer, for the purpose of relieving the cement about the square socket of the I while the core is being withdrawn. The lower or base centring and supporting plate of mould is so constructed that a portion of it opens and closes across its centre on hinges. the purpose of admitting the largest end of the mould and then clamping it in position. rack of the jack screw and the grooves of the frame of the machine are so arranged as

control the core without interfering with its upward movement.

Claim.—First, the combination of the table B, movable platform L, mould or flack X plate K, core I, and jack screw G H, or its equivalent, the whole constructed and arrangement.

and operating substantially as and for the purposes described.

Second, the combination of the wheeled truck L and railway bars F F with a cement ! moulding machine, substantially in the manner and for the purpose described.

Third, the combination of the pliable washer with the hard shoulder of the core, sub-

tially as described and for the purpose set forth.

Fourth, the construction of the plate K with flaps d d and with apertures of different diameters, substantially as and for the purpose described. Digitized by

Fifth, the manner of arranging the guides a and the short posts E E with the rack bar G and core I, for the purpose set forth.

Sixth, the connexion of the shoulder or collar J to the core I, by means of an adjustable

through pin b, in the manner and for the purpose described. Seventh, the lifting of the base plate K and the flask or mould above the truck platform, by means of the ends of the pin b, or an equivalent means, substantially as described.

No. 35,693.—Henry Kühne, of Racine, Wis.—Improved Steering and Propelling Apparatus.—Patent dated June 24, 1862.—This invention consists in the arrangement of a capstan in combination with a screw propeller placed in the rudder, with gearing for working and and a lever for shifting the blades of the said propeller, so as to set them at various angles, or to bring them parallel with a plane passing longitudinally to the centre of the vessel, for the purpose of preventing them from dragging when it is not desired to use the propeller, as in entering a harbor through intricate channels, or in waters where the navigation is difficult.

Claim.—The combination of the screw propeller F arranged in the rudder and having sajustable blades, the capstan K, shafts L J, gearing M N I G H, and lever S, the whole

applied and arranged substantially as set forth.

No. 35,694.—E. B. and J. S. LAKE, of Absecom, N. J.—Improvement in Circuit-closers for Telegraphs.—Patent dated June 24, 1862.—This invention consists in hinging a circuitcloser, of the form shown in the engraving, to a telegraph key, and which works loosely in a slot in the said key, so that when the operator leaves the instrument after a message has been sent, the circuit-closer, by its own weight or by the aid of a spring, falls back upon the lip of the anvil and forms a self-closing circuit, thus avoiding the evil consequence arising from the neglect to close the circuit under the old form.

Claim.—The circuit-closer D combined with the telegraph key C, substantially as set forth.

No. 35,695 .- J. W. LAWSON, of Ann Arbor, Mich .- Improvement in Machines for Upsetting Tires.—Patent dated June 24, 1862.—This invention consists in the arrangement of parts designated in the claim, by means of which, when the tire is sufficiently heated and placed in the machine, it may, by turning the cam, be pressed together or upset, thereby saving the

later and cost of cutting out a piece and welding anew.

Claim.—The combination and arrangement of the sliding bed and stationary bed, stationary laws and sliding jaws, wedge-shape keys, cam and lever, substantially as set forth and

described, and for the purpose specified.

No. 35,696.—G. W. LLOYD, of Detroit, Mich.—Improved Mode of Constructing and Arranging Foot-lights for Theatres.—Patent dated June 24, 1862.—This invention consists in placing the light in a trough sunk in the front of the stage below the ordinary floor level, in which is placed a continuous reflector, so as to reflect the light at such an angle and in such direction as may be desired. Lights of any color may be substituted and inserted from below. A covering of fine metal wire cloth is hinged to the trough above the burners.

Claim.—The position and mode of arrangement of the lights with the continuous reflector,

as distinguished from the mode now ordinarily in use.

Also, the power of throwing colored lights on the stage, as above described.

Also, by means of the guard formed by the sunken trough and the wire cloth covering, greatly increased safety to performers.

No. 35,697.—W. R. MANLEY, of New York, N. Y.—Improved Feathering Paddle Wheel.—Patent dated June 24, 1862.—The nature of this invention is explained by the claim, the object being to distribute upon the frame of the wheel the force caused by the resistance of the distribute to the passage of the bucket through it, so as to prevent torsion.

Claim.—Making the length of the arm or crank 6 so proportionate to the distance which the horizontal centre of the axis is from the horizontal centre of the bucket, that the centre of the journal bearing in the outboard bucket flange, and the centre of the journal bearing in the leathering flange, are equidistant from a straight line projected indefinitely, from the centre of the journal bearing in the inboard bucket flange through the centre of the bucket, has been described and as is represented in figure 3.

No. 35,698 .- RICHARD MARTIN, of Brooklyn, N. Y .- Improved Packing for Piston and Value Rods.—Patent dated June 24, 1862.—This invention is explained by the claim. Claim.—The packing ring composed of a folded strip of woven hemp with a lining of wire Gaze, the whole being constructed substantially as and for the purpose set forth.

No. 35,699.—J. C. MAYBERRY, of White Rock, Ill.—Improvement in Cartridges.—Patent dated June 24, 1862.—This invention consists in fitting the cartudge with a loose bottom, which is driven into the body of the cartridge as the latter is rammed down upon or against the breech of the gun, and so caused to contract circumferentially and allow the loose powder to escape, the object being to obviate the necessity of biting or tearing the cartridge before its insertion into the gun, and prevent the consequent waste of powder.

Claim.—The construction of a cartridge with a loose contractible bottom B and a central peg d, or its equivalent, applied and operating substantially as and for the purpose specified.

No. 35,700.—H. W. OLIVER, of New Haven, Conn.—Improvement in Kilus for Dryag Lumber.—Patent dated June 24, 1862.—This invention consists in providing the kiln was narrow steam-chambers extending the whole length of the sides of the kiln and up to the eaves of the roof, and separated from the kiln by perforated and wadded partitions. Below the ledges, upon which the lumber is supported, is arranged along the centre of the kiln a scanboller with pipes leading to the steam-chambers at the sides.

Claim.—Providing a kiln with steam chambers D D, separated from the drying chamber or central portion of the kiln by means of perforated or reticulated and wadded partitions, and applying heat below the lumber to operate in conjunction with the steam admitted through

the said partitions, substantially as specified.

No. 35,701.—J. J. PALMER and A. PLAMONDON, of Chicago, Ill.—Improvement is Grain Separators.—Patent dated June 24, 1862.—This invention consists in the employment of a series of parallel screens and chutes, inclining in opposite directions to each other, so that the grain may be conveyed by the chutes to the head of each screen successively, and sujected to a blast in passing over each one. The fan case communicates with the lower end a spout, which extends upward at the back of the shoe, and in the back of the spout is a series of openings communicating with the spaces between the screens and the chutes. The inner side of the shoe projects up above the level of the slide, which is arranged to pass unkneath the hopper, so that when the shoe is in motion, the upper end of the said side of the shoe serves as an agitator, and insures a uniform discharge of grain from the hopper, and prevents the choking of the same.

prevents the choking of the same.

Claim.—The inclined screens I, and chutes J, placed in a suitable shee B, in combinates with a blast spout H, provided with openings d, arranged relatively with the screens to openings.

rate as and for the purpose set forth.

Also, the extension of the upper end of the inner side i of the shoe B, above the discharge orifice of the hopper L, substantially as shown, so as to have a moving surface at one side of the discharging orifice of the hopper, and a stationary surface at the opposite side, for the purpose specified.

No. 35,702.—LEONARD PARKER, of Winterset, Iowa.—Improvement in Strew Cutters—Patent dated June 24, 1862.—This invention consists in the employment of side knives which are secured to the ends of the sides of the straw box or to the slides of the cutting frame, and act in connexion with the W-shaped knife of the cutting frame, and a knife secured in the end of the bottom of the straw box. At the front end of the straw box is a spirit bottom provided with a spiral spring.

Claim.—The use of the side knives m and n, when used in combination with the knives! and k, spring bottom p, and the spiral spring o, as described and represented.

No. 35,703.—S. P. PARMELEE, of New Haven, Conn.—Improvement in Pieno-forts.—Patent dated June 24, 1862.—The nature of this invention is explained by the claim. To

inventor says: "In carrying out my invention, a semi-tubular or arch-shaped bridge is projected directly from the wrist-pin plate, the two being cast in one piece. A brace springs true the upper surface of this bridge, and thence passes horizontally to, and is joined with, the hist-

pin plate."

Claim.—Constructing the wrist-pin plate of the metallic string frame with a metallic projection G to receive and support each of the straining pin bushings, in manner as specific Also, making each of the bushing sockets with an opening h extending out of its bottom and with respect to the bushing, as set forth.

Also, arranging the string holes or passages through the bridge, and directly underness the junctions of each of the braces and the bridge, in combination with arranging the had pin of the string underneath the bridge, all substantially as described.

Also, the arrangement or combination of the arched bridge with the socket plate and set of the braces, in a manner substantially as described, the bridge thereby serving to constitutions.

the brace and the plate.

Also, insulating each straining pin from the iron frame by means of a wooden bushing.v' its equivalent.

No. 35,704—S. P. PARMELEE, of New Haven, Conn.—Improvement in Pianeforts—Patent dated June 24, 1862.—This invention consists in constructing the iron or string that with a metallic bracket or standard extending downward at the inner edge of the wits plate, and provided with a foot or flanch to rest directly upon the top of the bottom frame. The case. The iron frame has no direct connexion with either the sounding board or that part of the case which extends above the bottom frame. The sounding board is carried across secured to this part of the case, and is provided with an opening through which the hammen can play in order to reach the strings when strained across their frame.

Claim.—Constructing the iron or string frame with the metallic bracket or standard B, for

connecting the iron frame with the bottom frame, as specified.

Also, supporting the iron frame on the bottom frame, and insulating the former as described from the sounding board, and those parts of the case which extend above the bottom frame. Also, the above-described arrangement of the top plate, each of the braces, the bridge, and the wrist-pin plate of the iron frame.

Also, arranging the iron frame bracket or supporter, with respect to the iron frame and the sounding board, in manner so as to pass down through the hammer openings of the sounding

board, as described.

Also, extending the sounding board across the entire interior of the case, viz., from side to side and end to end thereof, and making such board with a passage for the hammers and the frame socket, as described.

No. 35,705.—THOMAS POOL, of Brunswick, Ohio.—Improved Clothes Wringer.—Patent dated June 24, 1862.—In this device the two rollers are caused to yield equally and simultaneously by means of two long springs extending across the width of the machine, and placed the one on the top of the upper cross-piece, and the other under the lower cross-piece to which they are attached by screws. The pressure is communicated from the springs to the journals of the roller shafts by means of sliding bearing blocks, held in place by a vertical slot in each, which plays over a screw or pin in the frame of the machine.

Claim—The combination and arrangement of the spring or springs M N, sliding bearing blocks P P Q Q, having guide slots and bearings d d g g, and stationary guide screws or pms f applied to the rollers, substantially as and for the purposes specified.

Also, giving an equal, or nearly equal, elastic pressure to both rollers simultaneously by means of the double long springs M N arranged in combination with the slotted frame, substantially as and for the purposes set forth.

No. 35,706.—MARY JANE PULTE, of Cincinnati, Ohio.—Improved Composition for Cleaning Glores.—Patent dated June 24, 1862.—In this composition use is made of hard soap, such at oleme or white castile, dissolved in water, to which, when boiled, is added a quantity of commercial alcohol, and afterwards soft water, the whole forming a paste when ready to be applied.

Claim.—The within-described composition of matter for cleaning kid gloves, combined

in the proportions and in the manner substantially as set forth.

No. 35,707.—W. H. RICHARDS, of Newton, Mass.—Improvement in Head Cushions to Pre-ren Sun-stroke.—Patent dated June 21, 1862.—This invention consists in the use of a material which shall be a non-conductor of heat, combined with a material which is an absorbent or retainer of moisture, the whole being held together by layers of cloth or other suitable material, so as to constitute a cushion to be worn on the head of a person exposed to the heat of

Claim.—A head protective cushion, made and to be used substantially in manner and for the purpose specified.

No. 35,708.—GELSTON SANFORD, of New York, N. Y.—Improvement in Machinery for Separating Fibres from Plants.—Patent dated June 24, 1862.—This invention is designed as mimprovement upon the machine patented to the said Sanford February 19, 1861. The claim explains the nature and object of the invention.

Claim.—The combination of the cylinder armed, substantially as described, with bars formed for scraping and combing, or either with the endless belt, also armed, substantially as described, with bars for scraping and combing, or either, substantially as and for the purpose

Also, in combination with the cylinder and endless belt armed with bars, substantially as described, the covering of the periphery of the cylinder with elastic substance between the bars, that the teeth or edges of the bars may act against a yielding surface, the better to perism the operations required, substantially as described.

Also, the elastic griping feed mechanism, substantially as described, in combination with the mechanism, substantially such as described, which crushes the fibre-yielding plants, and

exparates the impurities from the fibres, substantially as described.

Also, arranging the two series of moving combs, so that the combs on one of the moving surfaces shall act in the spaces between the combs on the opposite moving surfaces, substantaly as described, whether the two series of combs be attached to a belt and a cylinder or to any other form of moving surfaces, so long as the said surfaces move at or nearly the same reweity.

No. 35,709.—GELSTON SANFORD, of New York, N. Y.—Improvement in Machinery for Dressing Flaz and Hemp.—Patent dated June 24, 1862.—This invention consists in the em-Powment of an endless belt passing around rollers mounted in a frame and so arranged in restion to a cylinder, that the upper surface of the belt will lap around a segment of the 17 inder and bear against fluted rollers which are arranged upon the periphery of the cylinder. To the surface of this belt are secured cross-bars having ears at each end to receive the journals of rollers similar to those upon the cylinder, and between these rollers are also se-

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cured to the surface of the belt bars, with hatchel teeth similar to those on the bars upon the cylinder. As the cylinder is rotated, the rollers upon its periphery act against the rollers on the apron, which is thereby caused to travel in the same direction with the cylinder.

Claim.—The combination of the two series of breaking rollers, one series arranged on a cylinder and the other on an endless belt, or on the equivalents thereof, the one series being driven and imparting motion to the other series, substantially as and for the purpose describe. Also, the combination of the two series of hatchels arranged on the cylinder and on the

Also, the combination of the two series of hatchels arranged on the cylinder and on the belt or endless apron, or the equivalents thereof, the one series being driven and imparts motion to the other series, substantially as and for the purpose described.

Also, the two series of hatchels, in combination with the two series of breaking roller, a ranged on a cylinder and endless apron or belt, or their equivalents, when one of the sile series of breaking rollers and hatchels is driven and imparts motion to the other series, silentially as and for the purpose described.

Also, the feel rollers, one of which is elastic, in combination with the cylinder and belt a endless apron, or their equivalents, and provided with breaking rollers and hatchels, or either substantially as described.

No. 35,710.—GELSTON SANFORD, of New York, N.Y.—Improvement in Machinery for Breaking and Cleaning Hemp and Flaz.—Patent dated June 24, 1862.—In a suitable time are placed two bars, the adjacent faces of which are fluted longitudinally, the flutes from the upper to the lower edge being made gradually smaller for the purpose of gradually breaking the woody parts of the plant. The ends of the bars are fitted to slide in longitudinal with in the sides of the frame, the outer face of one bar being connected by rods to a crank that driven by any suitable motor so as to give to the said bar a rapid reciprocating motion toward and from the other bar, which latter is capable of yielding to the violence of the blows at the varying thickness of the material operated upon by means of springs placed behind a ends in the ways.

Claim.—In combination with reciprocating fluted surfaces for breaking and pounding, whether the flutes be made of equal or gradually less size, a reciprocating whipping or jaming rod, substantially as and for the purpose specified.

No. 35,"11.—S. M. SELEY and PETER HOPKINS, of Peoria, Ill.—Improved Piston for Scene Engines.—Patent dated June 24, 1862.—This invention relates to a method of construct and arrangement of internal valves for admitting steam to the interior of the piston in order to expand the packing rings. The operation will be understood from the claim.

Claim.—Admitting steam within the piston from one side and preventing its escape on the other side, alternately by means of valves sliding on stationary longitudinal pins, and cerering apertures in the respective plates or heads of the piston, substantially as and for the purpose set forth.

No. 35,712.—B. H. SMITH and G. W. ARCHER, of Ipswich, Mass.—Improvement is Harvesters.—Patent dated June 24, 1862.—Upon the axle of the machine is permanently secured a wheel H provided with teeth at one side of its periphery, and upon the same axle is hard loosely a bar I braced by a curved arm J, the rear end of which is also hung leosely on the axle, the front end being secured to the bar I near its front end. To the front part of the bar I is secured a pendent arm, which has the finger bar L connected to its lower end by a hinge or joint to admit of the finger bar being raised to a vertical position when not in use. To the bar I are attached the bearings of a rock shaft provided with two arms or projections which are acted upon by the teeth of the wheel H, and by means of which a reciprocating movement is communicated to the cutter bar. The finger bar may be elevated when desired by the operator by means of a lever V attached to the main frame.

Claim.—The combination of the rock shaft S, finger bar L, caster wheel Y, and lift; lever V with the swinging bar I, driving wheel H, and frame A, as shown and describes so that there will be a self-acting adjustment of the cutters as the machine passes along over the earth, and so that the cutters may at any time be instantly lifted from the ground, all sepecified.

Also, the combination of the curved swinging arm J with the bar I and axle B, as and ix the purpose shown and described.

No. 35,713.—J. D. SMITH, of Peoria, Ill.—Improvement in Seed Planters.—Patent date June 24, 1862.—This invention consists in an arrangement of a seed gauge, levers, and it row share, whereby the seed gauge is adjusted automatically from the movement of the level by which the furrow share is raised and lowered, so that when the machine is to be readent inoperative, the driver, by operating the lever which raises the furrow share out of the graph will at the same time shut off the flow of seed from the hopper, the seed gauge at the same time admitting of being adjusted in various positions to regulate the flow or discharge of the seed as may be required. The furrow share is attached to the shaft, by which it is raised and lowered by means of a spring, whereby the furrow share, when adjusted to its work, is kept in the ground, and at the same time allowed to yield or rise in order that it may pass freely over obstructions that may be in its path.

Claim.—First, the gauge plate G and lever H arranged with the shaft I, provided with the pin A and lever M, substantially as shown, to operate as and for the purpose set forth.

Second, the set screw K, in connexion with lever H, gauge plate G, and spring J, for the purpose of regulating the discharge of the seed, as specified.

Third, attaching the furrow share bar P to the shaft I by means of the spring O, as and for the purpose set forth.

No. 35,714.—F. B. STEVENS, of New York, N. Y.—Improved Method of Heating Feed Water for Steam Engines —Patent dated June 24, 1862.—Patented in England October 10, 1861.—This invention consists in the employment of an additional eduction valve, which is placed on the cylinder midway between the top and bottom, so that the piston passes the port of this valve in the course of each stroke; and, as this valve is never required to open until the piston has performed more than one-half of its stroke, it can be made to serve as the additional eduction valve of both strokes. The nozzle port, leading from this eduction valve to the cylinder, is formed by a series of small holes, their size in a vertical direction being less than the width of the narrowest packing ring used. The machinery that opens and closes the additional valve is simplified by placing a tappet on the eccentric rod that works the main valves in such a manner that it opens the eduction valve to its full extent when the eccentric opening the main valves, is midway in its stroke or throw, thus opening and closing the additional eduction valve twice while the engine makes one revolution.

Claim.—First, the additional eduction valve, communicating with the cylinder of a steam engine by an aperture placed at or near the middle of the length of the cylinder, in combination with apparatus for heating the feed water of steam engines by steam withdrawn from the induction side of the piston, substantially as shown and described.

Second, forming the aperture or nozzle last named by a number of small holes a a pierced

through the middle of the cylinder, substantially as shown and described.

Third, opening and closing the additional eduction valve, when placed in the middle of the

cylinder, by a motion derived from the eccentric that works the main valves of the engine, substantially as shown and described.

Fourth, the diaphragm in the closed heater and the valve attached to the cup, or its equivalent, and balanced by the weight, in combination with the apparatus for heating the feed water of steam engines by steam withdrawn from the induction side of the piston.

No. 35,715.—J. A. THAYER, of East Boston, Mass.—Improvement in Tools.—Patent dated June 24, 1862.—This device consists of a hammer head composed of a perforated ball or bulb, from which extend at opposite sides two metal shafts provided, respectively, with a hammer ace and claw. To the under side of the hammer head and bulb, is attached a shank hollowed out to fit a scale or bar, along and upon which it is capable of being slid and adjusted by means of a thumb screw. The opening of the bulb is of sufficient size to conceal within its cavity the claw formed upon the end of the scale.

Claim.—First, a shank or bar graduated to form a scale, the ends of which are shaped respectively into a screw-driver and claw, as described.

second, a handle or sleeve capable of adjustment upon and along the said shank or bar,

substantially as set forth.

Third, a hammer head adjustable along the said shank or scale and provided with a bulging centre piece so arranged as to act as the fulcrum to its own claw as well as to that of the bar, the whole being constructed, arranged, and combined as set forth.

No. 35,716.-J. D. TIFFT, of Cuyahoga Falls, Ohio.-Improvement in Clothes Wringer and Mangle Combined.—Patent dated June 24, 1862.—This invention consists in the employment of two sets of rollers, one set being made of hard wood and used for mangling, and the other set of some elastic material, to be used in wringing the clothes; the one set to be substituted for the other as the machine is required for the separate processes. Above the boxes which sustain the upper roller journals, are placed elastic springs G, over which are semicircular bearings c d. Between these bearings are placed wedges m n, through the arms of which Pass p.ns, thus connecting them to an eccentric fulcrum formed of two horizontal plates upon a shaft which passes through the upper cross-bar and is operated by a lever. The turning with lever causes the wedges to be forced between the bearings c d, and thus increases the Picecure on the rollers.

Claim.—The eccentric fulcrum P, arms m' n', wedges m n, bearings c d, in combination with the elastic springs G, rollers C C' and D D', in the manner described, when operating

conjointly for the purpose set forth.

No. 35,717.—BENJAMIN TUKEY, of Fairfield, Maine.—Improved Fruit-gatherer.—Patent dated June 24, 1862.—This device is composed of a series of fingers or standards secured at their lower ends to a circular disk of wood and curved at their upper ends. Just below the curved part is secured a cutter of tin or other suitable material for separating the fruit from the limb. To the under side of the circular disk is attached a handle.

Claim.—The method described of gathering fruit without danger of bruising the fruit and without ascending the trees, using for the purpose the instrument described, or any other sub-Digitized by GOOGIC

stantially the same.

No. 35,718.—C. A. UHL, of Millersburgh, Ohio.—Improvement in Cultivators.—Patent dated June 24, 1862.—This invention consists in so connecting the cross beam to which the shovels are attached, by means of rods, to a lever, that, as the machine is moved along the operator may, by the pressure of his foot upon the lever, elevate the shovels from the ground when desired. The shovel arms are adjusted vertically by means of pins placed in holes in a guide bar or band to which they are fitted.

Claim.—First, the arrangement of the lever L, rods m, beam I, and ploughs E, as de-

scribed, for the purpose of lifting the ploughs from the earth as described.

Second, the guides F, for regulating the depth of the furrows, in combination with the pins inserted in the holes f, in the said guide-bands F, substantially as described and shown

No. 35,719.—JOSEPH VENDRAND, of Paris, France.—Improvement in Planes.—Patent dated June 24, 1862.—Patented in England, March 4, 1861.—This invention consists in a construction and arrangement of parts by which an additional regulation of the plane iron is attained, so as to preserve the parallel position of the cutting edge with reference to the face of the plane, whilst it is raised or lowered by the adjusting screw to adapt it to the cut of the proper thickness of shaving.

Claim. - First, the combination with the plane iron A, provided with mortises R, as described, of the adjusting screw V, sliding block B, and tenon a, the said tenon and mortise being relatively so constructed as to allow the iron sufficient lateral play to permit the per-

fect adjustment of the edge parallel to the face of the plane, as set forth.

Second, the combination of the nut a', which secures the cap to the cutting iron, with the

lever E, and ears E' E', as and for the purpose set forth.

Third, the arrangement of the lever E and screw e, as described—that is to say, in such a manner that the screw shall take its point of support upon the top of the plane, and extending up through the nut E2, terminate in a head for operating above the lever E, as set forth, instead of behind it, where it would be in the way of the operator.

No. 35,720.—CHARLES WANZER, of New York, N. Y.—Improved Coment for State Roofing.—Patent dated June 24, 1862.—The nature of this invention is explained by the claim. Claim.—A combination of grease pitch with the quicklime or hydrate of lime, or the chloride of lime or bleaching powder, Venetian red or other ochre, and linseed or other oil. about in the proportions specified, to form a cement for the purpose set forth.

No. 35,721.-P. L. WEIMER, of Lebanon, Pa. - For Forming Moulds for Shot and Shells.-Patent dated June 24, 1862.—The object of this invention is to provide a means for preparing a sand mould effectively and with great rapidity, within which a solid shot or shell may be cast, so that the cost of casting of a large shot or shell shall not exceed that of a small one. The flask which receives the sand composing the mould is rotated, while the sand is supplied to the flask, and is being compacted by rollers which, with the shaft, rises as the mass increases in thickness. A reamer and polisher are attached to upright shafts, supported in brackets fastened to central beams so fitted as to rise under the action of foot levers, and are provided with driving pulleys by means of which a rotary motion is communicated to their shafts.

Claim.—First, rotating the flask which receives the sand composing the mould, while the sand is supplied to the flask, and is being compacted by one or more rollers, for the purpose

set forth.

Second, forming the cavity in the mould within which the shot or shell is to be cast by

means of a rotating reamer.

Third, a rotating polisher for finishing the cavity formed by the reamer, for the purpose set

No. 35,722.-W. H. WELLSTEED, of Buffalo, N. Y.-Improvement in Skates.-Patent dated June 24, 1862.—This invention consists in constructing the front part of the runner of the skate with a joint, and applying thereto a spring, the toe of the runner projecting over the top of the stock, and provided with an elastic pad, which is made to bear or press upon the foot, and, in connexion with a screw or other heel fastening, serves to attach the skate to the foot without the use of straps.

Claim.—The jointed toe D of the runner, spring E, and a suitable pressure spring or pad F in connexion with the screw C, or other proper heel fastening, substantially as and for the

purpose set forth.

No. 35,723.—T. E. M. WHITE, of New Bedford, Mass.—Improvement in Artificial Legs.— Patent dated June 24, 1862.—The nature of this invention will be understood from the claim Claim.—First, a perfectly ventilated and pliable socket constructed of steel braces covered with canvas, and surrounded by wire gauze, as described.

Second, a ratchet and catch in the knee-joint, as set forth.

Third, a lever, for bringing the catch in contact with the ratchet by means of the weight of the body, and liberating it, as specified.

No. 35,724.—Dutee Wilcox, of Providence, R. I.—Improvement in Sleeve Fasteners. Patent dated June 24, 1862.—This device is formed of a metallic body or back to which is hinged a metallic tongue bent at each end and made to be sprung upon a hooked guard proecting from the other end of the body or back, it being designed more particularly to fasten

the sleeve of a child's dress when looped at the shoulder.

Claim.—The improved sleeve catch-up or fastener, as made with the duplex hooked spring-tongue B and with the guard hook C, constructed, arranged and applied to the body part A in manner and so as to operate substantially as specified.

No. 35,725.—FENN WILLCOX, of Newark, N. J.—Improvement in Gig Sawing Machines.

-Patent dated June 24, 1862.—The object of this invention is to obtain a muley or gig sawing machine which will admit of saws of different lengths being secured in it with facility, and also admit of more or less rake being given to the saw as circumstances may require. The tension of the saw is regulated as desired by means of a spring in connexion with certain gearing so that the machine may be adapted for sawing stuff of various thick-

Claim.—First, the frame D constructed as shown in connexion with the plate S attached to said frame D by hooks k, as and for the purpose set forth.

Second, the adjustable plate R connected by a hinge or joint j to the plate S, and operated by a set screw n^* , for the purpose of regulating the rake of the saw, as set forth.

Third, connecting the frame D to the shaft G by means of the strap E and pulley F, the latter being connected to its shaft G by the clutch H, to admit of the adjustment of the frame D, as described.

Fourth, the combination and arrangement of the gearing I J and spring L, for the pur-

pose of straining the saw N, as set forth.

Fifth, the roller C', when placed in the adjustable plate B', and attached to the vertically adjustable plate D', as and for the purpose set forth.

No. 35,726.—B. P. WILSON, of New York, N. Y.—Improved Clothes Wringer.—Patent dated June 24, 1862.—This invention consists in the application to the pressure rollers of endless India-rubber belts fitted on loose pulleys placed upon the journals of the rollers, whereby the desired pressure upon the rollers is obtained.

Claim.—The combination of the rollers C C', pulleys E E F F, and endless India-rubber belts G G, arranged and applied to an upright framing, substantially as and for the purpose

set forth.

No. 35,727.—A. I. AMBLER, of Milwaukie, Wis., assignor to Himself, R. N. AMBLER, and WARRICK MARTIN, of the same place.—Improvement in Railroad Car Brakes.—Patent dated June 24, 1862.—This invention consists in the employment of a rotating rod or shaft C placed underneath each car, and having upon it four cams, consisting of circular disks, having one side formed with a bevelled surface and made to bear against friction rollers fitted upon the brake The rotating shaft C may be operated from the locomotive by connecting it with a shaft N on the locomotive, which is rotated by the piston of the steam cylinder in connexion with a rack and pinion. On the front end of each car-frame is placed a vertical shaft, upon the lower end of which is a bevel wheel which gears with a wheel upon the shaft C. vertical shaft P is encompassed by a tubular shaft S, each turning independently of the other. To the lower part of the tubular shaft S is attached a chain connected to the brake bus, thus admitting of the brakes of each car being operated separately or with those of the whole train. The ends of the rotating shaft C are provided with cross-bars, having a pin fitted in one end and a hole near its opposite end, so that the pin of one bar fits in the hole of the adjoining bar, by which means a connexion is formed between all the rods of the several

Claim.—First, the rotating rod or shaft C, in connexion with one or more cams D, either placed on the rod or shaft, or so connected therewith as to be turned by it and actuate the brakes, as described.

accord, operating or turning the rod or shaft C from the locomotive by means of a steam Crunder J, having its piston rod K provided with a rack L, which gears into a pinion M on the shaft N, connected with the rod or shaft C, substantially as set forth.

Third, the shatts P S, fitted one within the other, and connected, one P to the rod or shaft C, and the other S directly to the brake bars, substantially as and for the purpose specified.

Fourth, the draw heads or couplings formed of the cross-bars f, each provided with a pin g and a hole A, substantially as set forth.

No. 35,723.—I. S. BARBER, of New York, N. Y., assignor to Himself and L. N. Fuller, of the same place.—Improvement in Cigar Machines.—Patent dated June 24, 1862.—This invention consists in the employment of two concave rollers, around and between which, so to form a pocket, is arranged an endless belt, which is kept distended by means of a lightening roller hung in a frame and capable of being raised or lowered, so as to tighten or losen the belt at either end to vary the size of either end of the cigar. A movable desk or bench is arranged to be brought in contact with one of the concave rollers. Attached to a gear wheel is a sleeve D, and also to a circular knife which comes in contact with a smooth surface or die, cutting the wrapper to form the head of the cigar.

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Claim .- First, the combination of the concave rollers A and A', and the roller L, whether of wood or metal, with the endless belt M and desk O, when combined and used for the pur-

pose of manufacturing cigars, in the manner described.

Second, also, in combination with the foregoing first claim, the loose sleeve D, header J, circular knife II, and circular die I, the same being constructed and acting together to perfect the operation of the manufacture of cigars, as and in the manner described.

No. 35,729.—H. V. BUTLER, of New York, N. Y., and J. C. HOADLEY, of Lawrence, Mass., assignor to H. V. BUTLER.—Improvement in Device for Changing Speed in Machinery.— Patent dated June 24, 1862.—This invention consists of an arrangement of mechanism by which the speed of machinery may be changed at will, expeditiously and without any cesstion of movement.

Claim.—The combination of the collar E, its attached pinion F, and the pulleys T M, with the shaft D, pulley P, clutch K, gears G I J, and belt shipper Q, in the manner and for the

purpose shown and described.

No. 35,730.—Z. E. Coffin, of Newton Centre, Mass., assignor to Himself and W. P. HUNT, of Boston, Mass - Improved Capstan. - Patent dated June 24, 1862. - Upon a stationary spindle is fitted to turn freely a hollow shaft, the lower end of which is expanded and provided with pawls upon its rim, fitting in corresponding ratchet teeth on the foundation plate. The top of the hollow shaft is also enlarged to carry studs, upon which are placed the gears Q, which mesh into a pinion and also into an internal gear fixed in the top of the capstan barrel, so that the latter can be driven as a simple capstan turning freely upon the fixed spindle, but becoming stationary when a more powerful motion is required, the leve

head being reversed and thus bringing the gears into action.

Claim.—The arrangement of the hollow shaft C, within the capstan barrel and upon the fixed spindle B, said hollow shaft being arranged to carry the gears Q above, and the pawks upon an expanded rim at the bottom, and so as to freely turn upon the fixed spindle for the simple motion, but becoming stationary when the gears are brought into action by reversing

the motion of the lever head, substantially as and for the purposes set forth.

No. 35,731.—Samuel French, of Boston, Mass., assignor to Himself and Sidney Allex. of Newton, Mass.—Improvement in Safety Pockets.—Patent dated June 24, 1862.—This invention consists in providing the jaws of a pocket with a locking apparatus composed of a spring bolt and catch. From the inner jaw extends a thin flexile spring or bar of steel, to which is attached a bolt actuator, the end of which spring may be brought to any convenient position on the body, so that when the jaws of the pocket are locked, they can be unlocked only by operating the flexile spring and thereby prevent the pocket from being picked.

-The combination of the flexible arm and bolt actuator, or their equivalent or equivalents, with the pocket and its fastening apparatus, the whole being substantially a

specified.

No. 35,732.—W. FROEHLICH, of Harburg, Kingdom of Hanover, assignor to MORRIS RICHTER, of New York, N. Y.—Improved Mattress.—Patent dated June 24, 1862.—This invention is explained by the claim.

Claim.—A mattress having its cover or case divided into a series of compartments of trilateral form, by means of a partition of zig-zag form, stitched or otherwise secured alternately at about equal distances apart to the top and bottom of the cover or case, substantially as shown and described.

No. 35,733.—John Gallagher, of Brooklyn, N. Y., assignor to Himself, Christopher DORFLINGER, ANSON JUDSON, and ANTOINE REGAN, of the same place.—Improvement is Lighting and Trimming Lamps.—Patent dated June 24, 1862.—This invention consists in suspending the wick tube upon journals secured in the sides of the body of the burner, one of the journals being provided with a crank so that the tube can be readily turned down from a vertical position. At one side of the body of the burner is an opening fitted with a door or slide, through which opening the tube protrudes when turned down and admits of filling, trimming, or lighting the lamp without the necessity of removing the chimney.

Claim.—First, suspending the wick tube C by means of the journals I I, or their equiva-

lents, and operating substantially as and for the purpose described.

Second, the opening B, with its door D, for the purposes described and set forth.

No. 35,734.—JOHN GAULT, of Boston, Mass., assignor to Himself and W. B. BARKALOW, of New York, N. Y.—Improvement in Chain Shot.—Patent dated June 24, 1862.—This inventor tion consists of an elongated hollow projectile, divided transversely at or near its centre, the two parts being kept together by means of dovetails, and connected by a chain, so that they will keep together during their flight but separate when meeting with any resisting object, and bring the chain into operation.

Claim.—An elongated chain shot divided transversely, when the two portions are united

by dovetails or their equivalents, substantially as described.

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No. 35,735.—Josee Johnson, of New York, N. Y., assignor to Himself and John WARD, jr., of Brooklyn, N. Y .- Improved Ironing Table. - Patent dated June 24, 1862.-This invention consists in constructing an ironing table with a top in the form of a broad press-board, and with a central supporting frame hinged thereto, open at the end beneath the narrow end of the top, and supported upon three legs, two of which are capable of being folded into a line with the frame, or of being extended to support the table, the top being so hinged to the frame as to be folded over parallel therewith for storage, or turned up in a horizontal position for use.

Claim.—The construction and use of an ironing table, with a tapering top A, and with a central frame B b, open at one end, as shown by M, to allow the slipping on of skirts and the like, supported laterally by folding legs F F, which are capable of being folded into a line

with the said frame, so as to form a novel table possessing the advantages set forth.

No. 35,736.—Nelson Kidder, of Moscow, Iowa, assignor to B. F. Linville, of the same place.—Improvement in Ditching Machines.—Patent dated June 24, 1862.—From the rear or central part of the draught beam projects downward and forward a ploughshare, and hinged to the central frame are two side frames I I, which are held at any height or angle of obliquity by means of segments passing through a standard and secured by a pin. The central frame is supported at its rear end by an adjustable caster wheel, the shank of which fits in a suitable socket, and is held at any height by a set screw. To the rear end of the side frames I are atta ched adjustable rollers for compressing and smoothing the sides of the ditch.

*Claim.—The combination of the share E, and adjustable expanding wings I I, adjustable. supporting wheel H h, and rollers O, all constructed and operating substantially as and for the purposes set forth.

No. 35,737.—LAFAYETTE LOUIS, of Buffalo, N. Y., assignor to G. A. PRINCE and THOMAS STEPHENSON, of the same place. — Improvement in Melodeons. —Patent dated June 24, 1862. -This invention consists in the application of a device to the keys of melodeons and organs, so that when a key or note is struck by the performer, it will be held down, and the valve kept open in a manner to prolong the sound until another key is struck, each key when struck instantly releasing the previous key, and prolonging its own sound until another key is struck, thereby enabling the performer to sustain or prolong at will any note in the base, while both

hands are free to play upon other parts of the key-board.

Claim.—The construction of a device, named the "basso tenuto," and the use and combination thereof with a melodeon, organ, or piano-forte, for the purposes and substantially as

described.

No. 35,738.—JOHN NORTH, of Middletown, Conn., assignor to W. H. and J. A., DANIEL 8 and S. F. APPLETON, of New York, N. Y.—For Paper Folding Machine.—Patent dated

June 24, 1862.—The nature of this invention will be understood from the claim.

Claim.—First, the combination of pressure rollers for holding the paper upon and in working contact with propelling rollers, with such propelling rollers and folding rollers, the latter folding and presenting paper which is then moved by the former, the combination being substantially such as specified.

Second, propelling rollers and pressure rollers acting in combination, as described, in combination with wires or rods to support sheets of paper, the combination being substantially

Third, in combination with a pair of folding rollers, a pressure roller applied substantially as described, to compress paper against one of the folding rollers, the combination acting substantially as set forth.

Fourth, in combination with folding mechanism mounted upon a vibrating frame or vibrating arms, a delivering board constructed, arranged, and operating substantially in the man-

ter described.

Fith, in combination, a compresser or compressing surface, a delivering board, having a mole of operation substantially as described, a table or support for folded paper, and other surfaces parallel or nearly so to the compressing surface, which latter gradually move away from the compression as folded sheets are introduced, the whole being constructed and acting substantially as specified, and in combination with a proper apparatus for folding paper.

Sixth, in combination with a delivering board, a compresser acting substantially as de-

eventh, in combination with proper blades or knives for creasing paper and introducing it between folding rollers, folding rollers fluted parallel to their axes operating upon the paper and in connexion with the blades, substantially as set forth.

Eighth, actuating the folding rollers of a paper-folding machine by means of stationary-toolbed sectors, substantially such as described, when such rollers are mounted upon and

carried by a counterpoised vibrating frame.

Minth, the general arrangement, substantially as described, in so far as the same consists of a stationary table on which the paper to be folded is laid, and a vibrating frame, and of sets or wies of folding rollers, mounted in that frame, under substantially such an arrangement of folding rollers and blades as is described, whereby the paper is seized from the table and

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carried upward by the first pair of folding rollers and delivered from the frame on the opposite side thereof by the last pair of folding rollers.

Tenth, in combination with apparatus for folding paper, a stop motion or disconnecting ap-

paratus, constructed and operating substantially as described.

Eleventh, in combination with folding rollers, a side guide for the edge of a sheet, arranged and acting substantially as specified.

No. 35,739.—Lewis Patric, of Victor, N. Y., assignor to Himself and Henry Reed, of the same place.—Improvement in Grain Separators.—Patent dated June 24, 1862.—This invention consists in the employment of a series of inclined screens arranged to revolve within an inclined cylindrical case or barrel, the under side of which opens into a screen box, except a space of a few inches at the lower end where a trough is formed, into which the grain discharged from the screens, and from which it is thrown into a spout p by the joint action of the revolving screens and a scraper attached to the outer screen and revolving with it.

the revolving screens and a scraper attached to the outer screen and revolving with it.

Claim.—The arrangement in grain separators, as and for the purpose specified, of the spott
p and scraper c, in combination with an inclined series of cylindrical concentric revolving
screens, having a central blast passing through them longitudinally in the opposite direction

from which the grain is fed.

No. 35,740.—G. B. Phillips, of Newark, N. J., assignor to John R. Crockett, of the same place.—Improvement in Wren hes.—Patent dated June 24, 1862.—This invention consists in the employment of a jamb or holding nut arranged to be screwed against the nut that traverses the sliding jaw, so that when the jaw is adjusted it may be fastened and held in its place by receiving the jamb nut against the nut that traverses the jaw. In the head of the wrench is a socket, which may be made to turn small square-headed bolts, and to this socks is fitted a series of sockets of different sizes adapted to turn screws, with small square heads in cavities or otherwise; screwdrivers, reamers, and other tools may also be fitted to this socks.

Claim.—The jamb or holding nut, arranged substantially as described, for the purposess.

forth.

Also, the socket L in the head A, in combination with the removable sockets of various sizes for screwdriver or other tools used in it.

No. 35,741.—CORNELIUS VAN DERZEE, of Albany, N. Y., assignor to Himself and W. S. VALENTINE, of the same place.—Improvement in Bung Cutters.—Patent dated June 24. 1862.—This machine is composed of a mandrel provided at one end with a threaded neck for the purpose of screwing it into the driving pulley shaft of a lathe; the other end is fitted to a curved bar B, fitted at its extremities to carry sliding blocks, from which rise ears D with slots in them to guide and carry the cutter bars forming the extremities of the bars. These slots are so arranged as to guide the cutters as they slide through them in lines oblique to the axis of the mandrel so as to give the required bevel to the bungs. The rear end of the cutters are made to enclose a cylinder G fitted to move along the mandrel, and attached also to the rear ends of the cutters are forked guide bars, so that by the movement of the cylinder along the mandrel the cutter bars are forced forwards or drawn backwards through the slotted ears D.

Claim.—The combination and arrangement described of the following apparatus, forming a tool or machine for cutting out from suitable material bungs of any desired size, viz. mandrel A, fitted for rapid revolution, with its bar B, the adjustable sliding blocks C C, fitted as guides to the cutter bar E E, with their cutters and their guide bars K and L, sliding cylinder G, with its groove for the guide bars, the whole as set forth.

No. 35,742.—JAMES WEBSTER, of Birmingham, England, assignor to J. H. Porter and Robert Porter, of the same place.—Improvement in the Manufacture of Orgges Gs.—Patent dated June 24, 1862.—Patented in England October 19, 1861.—This invention consists in a mode of treating a mixture of nitrate of sods or other nitrate with an oxide of iron or burnt oxide of zinc, for the purpose of obtaining oxygen gas, nitrogenous compounds, and the base of the salt employed. For this purpose the mixture is submitted to distillation in an iron or other proper retort, and the nitrogenous compounds contained in the gaseous products of the distillation are condensed in water or in any other convenient manner; those compounds are then separated from the residue of the gaseous products consisting chiefly of oxygen gas, which is collected in a proper receiver. The residuum in the retort at the end of the process contains the base of the salt employed, which, if it be an alkali or alkaline earth will be in a caustic state.

Claim.—The obtaining the oxygen, nitrogenous compounds, and the base of the salt employed, in the manner stated.

No. 35,743.—B. F. BEAN, of Schuylkill, Pa.—Improvement in Wagon Standards—Patent dated July 1, 1862.—This invention is designed more particularly for wagons for hauling lumber, and consists in the employment of a standard composed of a cast-iron socket, in which a slide is caused to move up and down so that it may be secured at its full height to support the load, and readily lowered to facilitate the operation of loading and unloading.

Claim.—The combination of the socket A, slide B, spring D, and pin E, constructed and

adapted to operate together in the manner substantially as and for the purposes specified.

No. 35,744.—C. H. BRADY, of Mount Joy, Pa.—Improvement in Moulds for Casting Ploughshares.—Patent dated July 1, 1852.—The chilled-drag or "nowel," which forms a part of the flask, consists of a smooth casting having the face curved and shaped for the reception of the pattern of the mould-hoard to be cast; it is also provided with a broad langed edge having three ears which are perforated to receive pins on the cope, which latter perresponds with the drag and pattern, uniting with the same and forming the flask. The lack is secured in a vertical position, and the metal poured in through the runner on the top of the flask.

Claim.—The combination of the flask formed by the chill-drag or nowel B and cope A. stranged substantially in the manner set forth.

Also, casting and chilling plough-irons, in a vertical position, by means of such a flask.

No. 35,745.—D. C. BROWN, of New York, N. Y.—Improvement in Running Gear of Vehides.—Patent dated July 1, 1862.—The object of this invention is to provide a running year which shall admit of the employment of large forward wheels and be capable of turning ibort curves; and it consists in dividing the reach and connecting it by a flexible joint. Beween the hounds and the rear braces is a sliding box encompassing the divided reach, and provided at its forward end with a finger, and at its upper side with a lever to be under the control of the driver, by means of which the sliding box may be brought into a position to that the rear and forward wheels may be turned simultaneously, or the reach may be made rigid.

Claim.—First, the flexible joint between the sectional reaches A and B, in combination

with the sliding box C, substantially as and for the purpose described.

Second, the finger D on the sliding box C in combination with grooves or channels f and g, substantially as and for the purpose set forth.

No. 35,746.—HENRY BURDEN, of Troy, N. Y.—Improved Machine for Making Horse-thees.—Patent dated July 1, 1862.—This invention consists in a method of supporting the water edge of the shoe during the operation of creasing and punching, by which the iron is perented from being forced out of shape by the creaser or split during the operation. The position of the creaser is adjusted with reference to the lower dies and side supports by means it a ring having a projection or lug g cast upon it and attached to a shaft. Upon this shaft moves a pinion provided with projections extending out on each side of the lug g. brews pass through the projections and bear against the lug, so that by turning the screws the position of the pinion on the shaft may be accurately adjusted and the crease brought trafer to or removed from the toe of the shoe.

Claim.—First, the peculiar arrangement of four eccentrics operating simultaneously in a machine of this kind, by which a horse-hoe which has been previously shaped may be peached, creased, and finished without any bulging of the outer surface and without the

larger of the shoe being split or cracked, substantially as described.

second, giving a varying motion to the side supports in said machine, by which to secure and the edges of the shoe with which they respectively come in contact, by means which are substantially set forth.

Third, the mode of adjusting the creasers, as set forth.

No. 35,747 .- OTTO ERNST, of New York, N. Y .- Improved Vessel for Extracting Es-Pags.—Patent dated July 1, 1862.—Combined with a small boiler, which consists of a conitally shaped cup having a trough at the lower end for containing alcohol for heating, is a cuttal personated pipe which forms a strainer, and in which is fitted a long plug for closing the bottom of the pipe. The alcohol trough rests upon a cup or receptacle into which the exmed coffee, tea, or other article descends after having been subjected to the boiling water in in apper cup, through the perforated pipe.

Claim.—The pipe-shaped strainer d applied in the cup or vessel c in combination with the vessel b and plug or stop to the pipe d, in the manner and for the purposes specified.

No. 35,748.-G. P. FARMER, of Philadelphia, Pa.-Improvement in Machines for Sticking Nucles into Paper. - Patent dated July 1, 1862. - This invention consists of certain mechanin for sticking uniform rows of needles in ridges formed on a continuous strip of paper, beveral rows being arranged at uniform distances from each other. The general nature title devices will be understood from the claim.

Claim.—First, the use of the partitions i i in the hopper A for the purpose of separating the reedles from each other, arranging them in a row, and determining the number contained

Second, the hopper A with its partitions i in combination with the channels t in the table I, when a lateral motion is imparted to the hopper by the devices described, or their equiv-- cats, for the purpose specified.

In I, the reciprocating rods k, adapted to the channels t t of the tables B, and arranged is part to the hopper A and its partitions, and operating substantially as specified. Fourth, the crimping block L with its projections a, the channels t t and transverse grooves y, the whole being arranged so as to act on the paper substantially as and for h

purpose set forth.

Fifth, the use of a block Q having three or any convenient number of sides, with partial at the corners, and having an intermittent revolving motion for the purpose of draward paper forward and determining the distance apart of the rows of needles to be stuck at a paper.

Sixth, the plates R arranged on the block Q and operating so as to strip the pap-

the points v, substantially as specified.

Seventh, providing the hopper A with the rod w, or its equivalent, the same being x = 1 structed and arranged in respect to the cross-head E that should the partitions in the x = 1 fail to direct the needles to their destination, the said rod will at once retard the further x = 1 ment of the machine.

No. 35,749.—Walter Fitzgerald, of Salem, Mass.—Improved Pegging Marker-Patent dated July 1, 1862.—In this machine the peg hole is made and the peg driven proper times by rotating cams. The cams which compress the springs are relieved to pressure by causing the bars which are actuated by the springs to rest on fixed stream they are elevated sufficiently to compress the springs to the requisite degree, so that they are elevated sufficiently to compress the springs to the requisite degree, so that they are elevated sufficiently to compress the springs to the requisite degree, so that they are elevated sufficiently to compress the springs to the requisite degree, so that they are elevated sufficiently to compress the springs to the requisite degree, so that they are elevated sufficiently to compress the springs to the requisite degree, so that they are elevated sufficiently to compress the springs to rest on fixed stream admits of the rotation of the cams, the friction which would be consequent upon the first sufficient to elevate the machine is caused to run with a constant admits of the use of a solid piston to close the open side of the peg-tube through with the persuased, instead of using the knife to close the said tube, for the purpose of as the breakage of the knife and derangement of the machine.

Claim—In a pegging mechanism, relieving the rotating cam or cams, which lift the star or driver bar, or both, from the pressure of a compressed spring or springs brought said cam or cams, in elevating said bar or bars, during that time of the rotation of said or cams in which said bar or bars are required to remain at rest in their highest elevations transferring the contact and pressure of said bar or bars from said cam or cams to a stops, from which said bar or bars can be detached at the proper times, substant a stops.

specified.

Also the combining the piston p and spring r, so that the peg or pegs displace it is piston in its movement to close the peg-tube shall be replaced by the spring in the permitted when the piston moves to open the tube.

Also, combining the piston p and spring r and a stationary knife, so that the mever the piston shall sever a peg from the peg-wood by forcing the wood upon the kn $^{\circ}$. That the spring shall return the wood, and the peg severed therefrom, to their n and p tions upon withdrawal of the piston.

A.so, in combination with the sliding and oscillating head of a pegging machine a rangement, substantially as described, of the driving shaft i, by which it is $k \cdot p^{i+1} = 1$ place while its distance from the centre of the driven shaft remains unattered in the positions which the head assumes in pegging, and by which I am enabled to come shafts i and g by spur gearing.

No. 35,750.—D. FLOWER, of Geneva, N. Y.—Improvement in Trimming Wall Paratent dated July 1, 1862.—The nature and object of this invention will be undersiant the claim and engraving.

Claim.—The shaft C having feed rollers h h, the extremities of said shaft resting $h \in \mathbb{R}$ centric arms D D and held down by springs h h, so that the rollers may be raised to said ing the edge of the untrimmed paper under them, and without throwing the wheel and out of gear, substantially as set forth.

Also, the elastic band L, running closely to or in contact with the surface of the combination with the feed rollers h and m, situated at such a distance apart as is sufficiently the paper securely in place while it is being trimmed, substantially as described.

Also, placing the shaft H obliquely to the shaft C and to the direction of feed, for is pose of throwing the heel of the cutter away from the edge of the trimmed paper, so as interfere with it, arranged substantially as set forth.

Also, the cleft rod P for seizing and holding the end of the trimmed paper, and n^{n-1} it is delivered from the feed rollers h m, arranged in such a manner that the increase the roll shall not take up the paper faster than it is delivered from said rollers, substant described.

No. 35,751.—HENRY GREEN, of Antwerp, N. Y.—Improved Metallic Heels for Box Shoes.—Patent dated July 1, 1862.—The upper part A of the metallic heel is a shorm of the back part of the boot or shoe, and the lower part of A is provided with a should cast in the form of the ordinary heel, the upper edge of the front part fitting in a shell cast in the form of the ordinary heel, the upper part of B fitting over the leather extends down on the tlanch of the upper part A. The part A is secured to the part Bix so as to admit of its ready detachment.

Claim.—The combination of the parts A B, provided with the shank piece and counter piece, and constructed with the flanch and angles for clamping the leather, all substantially as and for the purpose specified.

No. 35,752.—LUDWIG HAECKER, of Altenburg, Hungary.—Improvement in Brewing, when Indian corn is used.—Patent dated July 1, 1802.—For a description of the process claimed,

reference must be had to the specification.

Claim.—Not broadly the employment or use of maize for brewing beer, but the described process of producing maize beers by treating maize mixed with barley or malt about in the roportion and substantially in the manner set forth.

No. 35,753.—E. E. HENDRICK, of New York, N Y .- Improved Lubricating Composition.eatent dated July 1, 1862.—The nature of this invention is explained by the claim.

Claim.—As a lubricator for machinery, a fluid or compound, the bulk or excess of which s composed of coal oil produced in a state of nature, and with which caoutchouc is combined.

No. 35,754.—E. E. HENDRICK, of New York, N. Y.—Improved Lubricating Composition for Machinery.—Patent dated July 1, 1862.—One ounce more or less of caoutchoug is disolved in a gallon of coal or rock oil, and to this solution is added an equal quantity of water, he whole forming a mucilaginous compound.

Claim. - The use of a solution of caoutchouc in connexion with coal oil and water, sub-

tantially in the manner and for the purpose set forth.

No. 35,755.—James Hamblet, jr., of Boston, Mass.—Improvement in Watch Clocks. 'arent dated July 1, 1862.—This invention consists in the employment of an electro-magnetic y-tem of wires in connexion with a clock, registering apparatus and batteries, which are laced in the counting-house or office to which the watchman has no access, the conducting ires being carried to each apartment or place that is to be visited, at each of which there is a sitable knob or key for closing the circuit at the time and in the order required.

(lain. - The successive electrical connexion of each wire of a series or groups of wires, in neh manner that but one conducting wire, leading to one apartment or place, can be used at ne time, while the action of the whole series makes one full or complete record of the entire

hands of the warchman, as set forth.

Also, the combined action of the traversing connecting arm 20 and the pencil or marker, by hich is reco.d is produced that shows the time when the electrical connexion was made, and ic interval between each successive connexion, as set forth.

Also, the series of revolving cams, or their equivalents, when their motion is controlled or guisted by the combined action of an electro-magnet and the connecting arm 20, substanady as described.

No. 35,756.—George Heath, of Little Falls, N. Y .- Improvement in Valves or Wickets or Canal-lock Gates. - Patent dated July 1, 1862. - This invention relates to a method of conructing the valve or wicket, which is made of wood and metal combined, so as to effectually revent its springing or warping. The valve or wicket is arranged in relation to the position fits axis with its ends, and also as regards the formation of the latter, whereby the pressure f the water is made available in keeping the valve or wicket closed, and also in assisting to pen it when staited from its seat. The invention relates also to an improvement in the seats f the valve or wicket, whereby the same is rendered water-tight when closed, and a firm and abstantial bearing obtained.

Claim .- Having the ends of the valves B provided with heads D that have hollow journals Projecting therefrom, and openings c for the entrance of tenons b in combination with the entral shaft E, substantially as and for the purpose shown and described.

A.so, the combination of the bevelled bars F F on the edges of the valves with the V-shaped

Traves g g in the heads D D, in the manner and for the purpose shown and described.

Also, the arrangement of the bevelled edges of the valves and cleats G G with the central axis, in the manner substantially as shown and described, so that the valves, although having their axes in the centre, will present the greatest area for the pressure of the water above their axes, all as set forth.

No. 35,757 .- J. HUBLER and R. M. McGRATH, of Lafayette, Ind. - Improvement in Corn Shellers and Classes. -Patent dated July 1, 1862. -This invention is designed as an imrecovement upon a machine perented to Richards, Hubler & McGrath, assigned of J. C. & chards, September 25, 1850, a. 1. ** charles in having the screen cylinder longer than the cott cylinder or sheller, so that the corn can be balled at the rear end of the sheller can receive strong blast or wind and be freel from chaff and ______ires before it reaches the rear end of the cleaner.

Claim. - Wherein a rod cylinder and toothed shall and screen cylinder are used substanin y as covered by the patent to Richards, Hubler & McGrath, of the 25th of September, 1-..., making the sheller shorter than the cleaner, or, in other words, in having the screen

Ex. Inder or cleaner longer than the rod cylinder or sheller, as set forth.

No. 35,758 .- E. J. Hyde, of Philadelphia, Pa. - Improvement in Coffee Roasters .- Patent i.i.ed July 1, 1602.—This invention consists in arranging a crane and coffee cylinder so that the latter can revolve on the crane while the roasting process is being performed, and so the the crane can swing with the cylinder out of the stove to discharge the reasted coffee and receive a fresh supply. The fixed part of the drum of the stove is constructed with one of m end pieces wide and the other narrow, and the adjustable section of the drum in a smirmanner, but in a converse order to that of the end pieces first mentioned, so that the end with the coffee roasting cylinder may be swung out at right angles to the front of the sen and the ends of the drum be perfectly closed in when the coffee cylinder and the adjacts section of the drum are adjusted for the loasting process. A damper is so arranged the in flame may be passed either directly off to the flue or nearly around the coffee cylinder bear it reaches the fine during the process of reasting.

Claim. -- First, so combining a stove, a crane, and a roaster, that the roaster may be return. upon the crane over the fire, swung out horizontally from the stove to an angular passe therewith, and in this position be turned upon the crane to empty its contents, as set forth

Second, the combination, substantially as described, of the crane, E' and roaster F, & 2

purpose set forth.

Third, the manner, substantially as described, of constructing the end portions of the A in combination with the manner of constructing the end portions of the adjustable don't for the purpose set forth.

Fourth, the arrangement of the damper H in combination with a removable reaster F. **

the purpose set forth.

No. 35,759.—HENRIETTA C. INGERSOLL, of Bangor, Maine.—Improved Broom.—Part dated July 1, 1862.—This invention consists in placing a sponge for holding a quantité water within a corn broom, in such a manner that during the operation of sweeping, the box is gradually supplied with moisture from the sponge for the purpose of preventing the from rising in the room.

Claim.—The application of a sponge C, or its equivalent, to a corn broom A, substantial

No. 35,760.—James Jenkinson, of Brooklyn, N. Y.—Improvement in Sliding Bayers Patent dated July 1, 1862.—This invention relates to a sliding bayonet, so constructed a applied as to admit of its being readily advanced in the act of lowering the piece to bayonet," and readily retracted in the act of restoring the piece to a vertical position.

bayonet is held in its advanced position by means of a spring carch.

Claim.—The combination of the cavity C, sliding bayonet D, shank E, handle F, start catch G H I, and hole e, all constructed, arranged, and employed in the manner and he:

purposes shown and explained.

No. 35,761.—T. D. JUDAH, of Sacramento, Cal.—Improved Spring-back Chair —Padated July 1, 1862.—Attached to the back of the chair frame, and extending above 4 below the seat, are springs, which admit of the upper part of the chair frame yielding pressure of the body leaning against it, the chair back being jointed near its seat.

Claim .- The use of flat springs to the back of chairs, when said springs are in the back above the seat, over a joint or joints of the chair frame, substantially us and for the pur

described.

No. 35,762.—WILLIAM KEARNEY, of Union Township, and FRANCIS KEARNEY, of No ark, N. J.—Improvement in Pipe Tongs.—Patent dated July 1, 1862.—The object of invention is to obtain a means for readily adjusting the sliding jaw relatively with the jaw, so that the wrench may be adjusted to suit pipes or tubes of different sizes, and - 🛎 same time be capable of being firmly secured in position, so that it cannot be casually mixed when the wrench is applied to its work.

Claim.—The collar C, with the leg E' attached, in combination with the wedge D, the screw E, and inclined part a of the leg A, all arranged as and for the purpose set forth.

No. 35,763.—J. P. Krowles, of Lockport, N. Y., assignor to Himself and H. F. Waren of South Pekin, N. Y.—Improved Spring Bed Bottom.—ratent dated July 1, 1852upper surface of the bed bottom is composed of the ordinary longitudinal slats, under when are placed longitudinal strips. At the head of the bed bottom these strips are connected a cross cleat, between which and the cleat of the slats are a suitable number of c. The ends of the strips converge with the slats at the foot of the bed bottom to cleat of which they are, respectively, secured by screw bolts passing through both, as which they may be separated to a greater or less extent. Between the slats and sure the lower end are two sliding and adjustable blocks, extending from the centre strip w : outside one, so that by sliding them forward or back at an angle, the sides may be in the to a greater or less stiffness, and thus adapted to two persons of unequal weight in the bed.

Claim.—The elastic strips C C C, in combination with the slats A A A, coiled spring E E E, and adjusting blocks H H, the whole arranged and operating substantially as 24

In combination with the above, the screw bolts G G, for adjusting the ends of the slate and strips, arranged substantially as specified. Digitized by GOOQIC

No. 35,764.—J. W. KELLEY, of Ypsilanti, Mich.—Improvement in Seeding Machines.—heat dated July 1. 1862.—This invention consists in the employment of a rotary agitator of distributor, in connexion with an adjustable gate, arranged in such a manner that a greater or less quantity of seed may be sown on a given area. The back parts of the bars thich form the draw-bar for the hollow tooth are bent in the form of a loop for the upper art of the tooth to fit into, the upper end of the said tooth being provided at its back part with a projection fitting into a hole at the back part of the draw-bar. To the upper part of the tooth, at its front side, is attached a segmental projection provided with a cross-piece it is upper and lower ends, which serve as stops, to prevent the tooth from being forced evond a certain distance below, or raised beyond a certain point upwards.

Cloim.—First, the horizontal rotating seed distributor G, when provided with flanches b, and piaced in a cylindrical box F below, and communicating with the box D, and used in ambination with the slide P, arranged to work over the discharge opening c of the box F,

is and for the purpose set forth.

Second, the arrangement of the loop a^* at the back part of the draw-bar T, projection k, and segmental flanch m, attached to the tooth U, and fitted in the loop a^* , all arranged as shown, to admit of the tooth being secured to the draw-bar and the former working therein, as and for the purpose set forth.

No. 35,765.—AUGUST KOCH, of Rocktown, Pa.—Improved Self-acting Drawbridge.—Patent dated July 1, 1862.—The nature of this invention will be understood from the claim.—Claim.—The right and left-handed action of the screw with three threads, more or less, with sufficient pitch to allow the weight to run it back when it is opened, and also the cylinders fitting one in the other, to keep the screw at its place and giving strength to the same.

Also, the opening by a rudder in the water acting as a spring, to take off the shock of the boxt striking the bumper, as described, or anything else, substantially the same, and which will produce the intended effect.

No. 35,766.—F. C. LIGHTE, of New York, N. Y.—Improvement in Piano-fortes.—Patent detal July 1, 1862.—This invention relates to the employment in piano-fortes of what are braced string clamps, for clamping the string at the points, between which it should vibrate, and preventing any vibration in the portions beyond those points.

Claim.—So applying the clamping screw c that it not only serves to attach the upper or steer portion E of the clamp to the bridge D or wrest plank B, but by screwing into the lower portion F of the clamp serves to produce a positive and independent action of the two

potions of the clamp upon the string, substantially as specified.

No. 35,767.—M. M. Livingston, of Brooklyn, N. Y.—Improved Mode of Applying Nating to Windows.—Patent dated July 1, 1862.—This invention consists in the employment of elastic bands secured in the sides of the netting, for the purpose of contracting the table which forms the screw when the window sash is lowered, or adjusting it to the opening of the sash when raised to any desired height. The fabric is secured to two rods, which are led in place by screw rings or hooks driven into the sash, so that the rods and fabric can be readily removed.

Claim.—The application of the fabric C provided with elastic cords or bands e, or an equivalent thereof, passing through its sides to the casing and frame of a window, in combination with the rods a a', and rings or hooks b b' or their equivalents, arranged and operating

Rosantially as and for the purpose set forth.

No. 35,768.—DAVID MATTHEW, of Philadelphia, Pa.—Improvement in Steam Boilers.—Prent dated July 1, 1862.—Extending from the flue sheet, just below the flues, is a curved partien rising gradually upwards towards the back part of the furnace, and terminating smershat above the door, through which fuel is supplied to the furnace, at such a distance from the rear wall of the fire-box as to leave but a sufficient open space or channel through which the gases and heated air pass upwards along the rear wall of the furnace.

Claim.—The special combination with the fire-box d of the partition f_i as constructed and

arranged in relation to said fire-box, for the purpose set forth.

No. 35,769.—S. T. McDougall, of Brooklyn, N. Y.—Improvement in Gas Stoves.—Parent dated July 1, 1862.—The burner, which is of the usual conical shape, has its top in the lover and downward, so as to receive a cone-shaped cap which is fitted thereto, the perforated plate being secured between the cap and the top of the cylinder, so that the flame raised from off the plate, and the latter is thus preserved in a great degree from injury by that.

Claim.—First, the burner J, having a contracted top Q, with tight joints between the sides of the burner and the circumference of the perforated plate O', when used for heating purposes, substantially as specified.

Second, the above-described burner, or its equivalent, in combination with a gas stove composed of the base A, cylinder B, breast C, and top D, substantially as described.

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No. 25,770 .- S. T. McDougall, of Brooklyn, N. Y .- Improved Washing Machine. Patent dated July 1, 1862.—This invention consists in the employment of a revolving hollow cylinder arranged in a suitable tub, and combined with a reciprocating frame, which we the cylinder, is provided with a ribbed or corrugated surface. Upon the cylinder and fire is placed a series of ribs or slats having grooves formed between them, and in the space between the slats are rows of balls arranged so as to turn freely thereon upon pins. The inside of the cylinder is also constructed with balls, slats, and corrugations. To the fiame is secured a hopper, which serves to feed soap or other cleansing material to the clothes of the joint operation of the frame and cylinder.

Claim.—First, the revolving cylinder and reciprocating frame, both having ribbed are

faces, and arranged and operating in combination, substantially as described.

Second, constructing the surfaces of such cylinder and frame of grooved slats combined with rows of balls, when the latter are arranged with respect to each other, substantially and for the purposes set forth.

Third. constructing the inside of the cylinder with similar friction surfaces, in combinates with the series of balls, or their equivalent, on the central shaft, substantially as specified Fourth, the hopper, as attached to and used in combination with the washboard or frame M in the manner and for the purpose set forth.

No. 35,771.-J. W. McGaffey, of Chicago, Ill.-Improvement in Seed Planters.-Pates dated July 1, 1862.—Upon the shaft which carries the driving wheels is secured a date wheel, which is pressed by means of a lever against the periphery of a friction wheel conposed of an elastic ring of rubber or other suitable material. As the friction wheel is more to or from the axle of the friction disk, the relative motion of the seed-distributing cylinders to the driving wheels is more or less changed, thus permitting the seed to be dropped in a at any desired distance apart. In the seed distributing cylinder are two holes drilled oppose to each other, and into these holes are plugs, which may be turned in or out to adjust the depth of the cavities. The shanks of the plugs screw into a movable slide a, upon which are projecting points c.c. which come in contact with a cross-bar on the seed boxes: as the cylinders revolve, the slide a is forced down, so that the lower plug is brought to a loc with the periphery of the cylinder, and insures the dislodgement of any grains that me stick in the cavity. The frame is made in two parts, hinged together by collars at the seed to the cylinder of th part, working upon sleeve boxes on the front part of the frame.

Claim.—First, the combination with a com-planting muchine of the disk S and first a wheel T, arranged and operating substantially in the manner and for the purpose set feets. Second, the combination of the cylinder H, shifting plugs e e, and slide a, with projecting

pins c c, and cross-bar X. constructed and operated as specified.

Third, the combination of the flexible frame A A, the adjustable gear and its connexions. with the compound seed-distributing cylinders H, arranged and operated substantially s shown and described, for the purpose specified.

No. 35,772.—Benjamin Merritt and F. M. Gibson, of Chelsea, Mass.—Improved Mechanism for Operating Ships' Windlasses.—Patent dated July 1, 1862.—The windlasses supported upon two standards. A worm genr encompasses the central part of the windlasses. and meshes into a vertical screw, through which passes a square shaft surmounted by a capstan. This shaft is pivoted at its lower end to the deck, a screw being formed on the shaft just above the deck, upon which screw is secured a cup or shoe which serves to support a spring or cylindrical block of India-rubber extending around the shaft, and entering a socket formed in the lower part of a cylinder d, which extends down from the screw and > of a larger diameter than the spring or its supporting cup, so as to prevent oil from gain. access to the rubber spring

Claim.—Improved windlass motor or operative mechanism consisting of the screw D. the worm gear C, the reparate shaft E, and the clastic screw supporter H, arranged and appoint together and to the windlass, or to the latter and a capstan, in manner and so as to operate

substantially as specified.

Also, the described arrangement of the external cylindrical surfaces of the spring-socket cylinder d and the adjustable cup b, the said arrangement being for the purpose specified.

No. 35,773.—A. B. Morey and William Scarlett, of Aurora, Ill.—Improved Machafor Dressing Frathers.—Patent dated July 1, 1862.—This invention consists in a means of subjecting feathers to violent agitation over a strainer or perforated surface, under the unitence of a current of air passing downward through the strainer, the operation being much continuous by the gradual feeding in and withdrawal of the material. Means are always: ployed for transferring the feathers from a bed and supplying them to the working part of '-

Claim.—First, the described combination of a continuous feeder to supply the features from a suitable hopper, a fan, or equivalent blower, a series of agitators acting with a enclosed case or spout, and a perforated bottom or screen, for the purpose set torth.

Second, the employment on a feather-renovating machine of the movable hopper N hinzat P, as represented, and adapted to be let down and to rest upon the surface J, or its equals

to facilitate the filling of the same, and to be sustained in the erect or elevated position eed the feathers to the machine, as set forth.

ic. 35,774.—JOHN MYERS, of Dallastown, Pa.—Improvement in Windmills.—Patent al July 1, 1862.—The wind wheel is provided with an annular rim that is secured to the er ends of the wings and forms a best wheel, from which, motion is imparted to the saw adle or other device, and is combined with a hinged rotary post in such a manner that, by ing and turning the said post to the wind, the wind wheel is brought in working position, but the same time the belt is stretched. When the wind wheel is not to be used it can be veniently turned down, so as to relieve the belt and stop the motion of the machine. A ordary flanged wind wheel is attached to a transversely sliding adjustable arm, and comed with the belt running from the main wheel to the saw spindle in such a manner as to an an additional power, and at the same time the tension of the driving belt can be uated at pleasure.

 A_{aim} .—First, the arrangement of hinged rotary post D and windless f, in combination h belt E running over the annular rim B of the wind wheel A, constructed and operating

stantially in the manner and for the purpose shown and described.

second, the arrangement of the secondary wind wheel G and transversely sliding adjust-earm m, in combination with the belt E and wind wheel A, constructed and operating istantially in the manner and for the purpose specified.

No. 35,775.—H. W. OLIVER, of New Haven, Conn.—Improvement in Machines for thing Gun Stocks.—Patent dated July 1, 1862.—This machine is composed of a rotating derfor containing the gun stock, and having attached to it a series of patterns correspondwith the mortises and other cavities to be cut in the stock for letting in the metal work, abland with a reciprocating carriage for moving the said holder lengthwise, and with a sing cutter and tracer, in such a manner that all the said mortises or cavities may be cut hour removing the stock as is usual, by which a perfect uniformity in the stock is secured. Nam.—A machine for cutting the recesses or mortises for letting in the metal work of a stocks, composed of a rotary stock holder G and attached patterns f g h i' i' k' k' n' and itted to bearings in a reciprocating carriage C, substantially as described, and combined h a rotating cutter y and tracer t, to operate substantially as specified.

No. 35,776.—Morris Opper, of New York, N. Y.—Improvement in Skeleton Skirts. tent dated July 1, 1×62.—The nature of this invention will be understood on reference to

'caim and engraving.

Claim.—First, attaching the hoops to the tapes in a skeleton skirt by means of clasps, ich extend through one or more holes in the tapes and pass around portions of such tapes, they are secured to the hoops by other parts of the clasp, substantially as set forth. econd, the specific construction of the clasp A B C, consisting of the lips A, adapted to dover the hoop in the manner shown, and the lips B, adapted to be inserted through the mand to fold over the part C on the opposite side of the tape, in the manner shown for the rpose set forth.

No. 35,777.—J. S. OSTRANDER, of Albany, N. Y.—Improved Drinking Cup.—Patent led July 1, 1862 —The cup is divided into three sections, to the upper one of which is seed a handle, which is confined when closed by a catch at the bottom of the lower section ide. When the sections are drawn out the handle is turned over, and its lower end is night under a catch at the bottom of the lower section outside.

Usim.—The handle and catch on the inside, and the catch for the outside, arranged subuntially as and for the purpose specified.

No. 35,778.—HARRISON PARKER and JONATHAN C. SLEEPER, of Boston, Mass.—Imletement in Machinery for Cutting Veneers.—Patent dated July 1, 1862.—The inventor
list "The main feature of this invention is the poculiar method of applying the pressure to e surface of the block at or near the line of cut, and of graduating the same to the different ithness s of veneers; also the method of feeding the knife and of graduating the feed to edilerent thicknesses of veneers to be cut;" by which it is claimed that veneers may be it periectly sound and free from cracks, from any kind of wood and to any thickness

thim - First, the pressure bar d, adjusted as described, in combination with the feed icas U U for holding the pressure when used for cutting veneers, operated by the mechan-

m in the manner and for the purpo-e specified.

Second, the double ratchet, constructed and operated as described, for the purpose specified. Third, the cam lever *l* in combination with the adjustable slide block *p* thereon, substanday in the manner and for the purpose described.

Fourth the combined arrangement specified for giving a back and forward self-feeding ovement to the knife, whereby the knife recedes from the block or wood for the return

otion, and is again fed forward for the cut, substantially as described.

No. 35,779.—S. S. PUTMAN, of Dorchester, Mass.—Improved Curtain Fixture.—Patent dated July 1, 1862.—This invention consists in placing the friction bearing, by which the curtain is supported, at any desired height within the roll itself or its cap, so as to obviate the necessity of any nice or exact adjustment, instead of the usual method of producing friction by a spring pressing the end of the roll or its journal against one of the brackets or supports.

Claim.—The described curtain fixture, in which the friction necessary for holding the weight of the curtain is produced between the roll B, or its spool or cap, and the friction

shaft D, which is held from revolving, substantially as set forth.

No. 35,780.—WILLIAM RIDER, of Almont, Mich.—Improvement in Horse Power.—Paters dated July 1, 1862.—This invention consists in a novel arrangement of gearing and shalts, by which it is designed to diminish friction and consequent unnecessary consumption of power, and also admit of power being communicated from it at different points.

Claim.—The combination of the central shatt G and its gear F H with the wheels I I J J

and the master wheel K, as shown and described.

Also, having the master wheel K supported upon a central tube B, in the manner shows and described.

Also, the combination of the tube N and driving shaft O with the tube B and shaft G, as and for the purpose shown and described.

No. 35,781.—A. J. RITTER, of Rahway, N. J.—Improved Writing Desk.—Patent dated July 1, 1862.—A box or case of a portfolio or box form is provided with covers or lids hinged at opposite ends, and fastened in such a manner that when the lids are opened and supposed

at a certain elevation, it forms a portable writing desk.

Claim.—The combination of the partitioned box or frame A, lids or covers D and E, and rests or supporting boards F and G, for the purpose of producing a portable writing desk, portfolio, work-box, and checker-board, substantially in the manner set forth.

No. 35,782.—John Sebo, of Wilmington, Del.—Improvement in Hospital Bedsteads.—Patent dated July 1, 1862.—To a bedstead of ordinary construction is applied a frame what is covered with a fine canvas provided with an opening near the centre, and capable of yielding to the pressure of the body. To each corner of the frame are attached cord passing through grooves in the post and over pulleys to a roller below, so that the pat ent may be raised at any time and allow the bed to be made up. To the foot posts is attached a light table composed of a thin piece of wood which may be used as a table or fan.

Claim.—Not raising the patient by the colds and pulleys, but the construction of his pital bedsteads with grooved posts, with pulleys set therein as described, for the purpose of

setting the cords out of the way of attendants.

Also, the application of the fan table p to such bedsteads, in the manner and for the purposes specified.

No. 35,783 .- E. D. SEELEY. of Brookline, Mass. - Improvement in Cap-Prining Attackment to Fire-arms.—Patent dated July 1, 1862.—This invention consists in applying to guid or other fire-arms the cap holder and primer patented to the said Seeley, October 29, 186. and so modifying the discharging end of the holder that it may be moved toward and tured over the nipple of the fire-arm so as to place a cap upon the nipple, and then return to the original position automatically.

Claim. - First, the combination of a cap holder and primer, which has an extensible case

and a gun or other nippled fire-arm, substantially as and for the purpose set torth.

Second, the construction of the extensible case A in two parts a b, and with spring-connecting bands e e, or other equivalent connexions, substantially as and for the purpose set

No. 35,784.—Moses Shelden, Jr., of Calais, Vt.—Improvement in Harrows.—Patent dated July 1, 1862.—This harrow is composed of two concentric rings, secured together and provided with teeth.

Claim.—The arrangement of the teeth of a harrow in concentric series, in the manner shown by E and G, (with or without the straight series H extending across the centre,) for the purposes set forth.

No. 35,785.—A. E. SMITH, of Bronxville, N. Y .-- Improvement in Attaching Thills to Azles.—Patent dated July 1, 1862.—This invention consists in forging the jack or eye, w which the thills are attached, upon the front edge of the axle, instead of the usual method of

making the jack or eye form a separate piece of metal and securing it upon the axle.

The hole through the jack is made larger in diameter than the bolt, so as to hold a hollow cylindrical packing of rubber, and combined therewith is a square bolt to attach the thill is the jack, which being held firmly from rotating in the car-pieces of the thill iron, transfers the friction and wear upon them to the packing, and thus prevents the wear of the bolts and holes, and also preven's the bolts from losing their nuts.

Claim.-First, the method of constructing iron or steel axletrees of wagons, and other

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rehicles with a drawn-out or solidly-welded jack or eye on the front edge thereof, for attach-

ing the thitls thereto, substantially as set forth.

Second, also the use of a square bolt, and openings in the ear pieces of the thill irons, to hold the bolt from turning on its own axis, in combination with the packing and jack, for the purposes described, and made and operating substantially as set forth.

No. 35,786.—O. P. SMITH, of New York, N. Y.—For Pen Rack.—Patent dated July 1, 1802.—To the upper part of a standard or post attached to a stand is secured a circular disk of India-rubber, in the edges of which are notches of sufficient size to receive and hold a penholder or pencil.

Claim. The application of a notched flange or strip of India-rubber, gutta-percha, or elastic material as a pen rack, in all and every form in which the same may be applied, the elasticity of the material firmly grasping the pen or pencil, so that when any one may be taken from

the rack all others remain fast in their positions.

No. 35,787.—A. SPENCER, of Grampian Hills, Pa .— Improvement in Cider Mills.—Patent dated July 1, 1862.—Upon a horizontal shaft are fitted loosely two circular plates placed obiquely to each other and connected by a pin, and having their lower edges in contact with each other. These places bear against friction rollers at their lower edges, fitted in a frame, the lower part of which bears against a spring.

Claim.—The combination, in the manner shown and described, of the disks E G and shafts

F B with the roller d, frame H, and spring I, all as set forth.

No. 35,788.—F. B. STEVENS, of New York, N. Y.—Improvement in Valves for Heating Feet Water for Steam Engines.—Patent dated July 1, 1862; parented in England October 10, 186.—The nature and object of this invention will be understood from the claim.

Claim.—F rst, the additional eduction valve openings 6.7 8.10 and 11, formed by narrow pois in a slide valve, and arranged to be wide open when this valve is midway in its throw, substantial y as shown and described, but not these ports otherwise than in combination with having he feed water of a steam-engine by steam withdrawn from the induction side of the p: ton through an aperture made in the centre of the length of the cyander.

Second in the same connexion and combination forming these additional eduction ports on

the wo sides of a three posted valve.

Thad, in the same connexion and combination, using the pressure of steam from the boiler to keep the addit onal eduction slide valve on its seat.

No. 35.789. - F. B. STEVENS, of New York, N. Y .- Improvement in Heating Feed Water for New Bolers.—Patent dated July 1, 1832; patented in England October 10, 1861.—The 6b ect of this invention is to improve the action of the valves by the application of devices to open and clove thom in the period commencing after the steam has been cut off, and ending at sufficent time before the piston gets to the end of its stroke to allow for a paper degree of end to be given to the main eduction valves. The valves are held on their seats when the presure in the heater is greater than the pressure in the cylinder by balancing the valves and reghing them. An injection pump to deliver the co d water into the closed her er is used in combination with the withdrawing pump to remove it, the action being more certain and re-Labe than when the wa er is drawn into the heater by the vacuum therein. This injection pump is preven ed from delivering more than its capacity at each stroke by weighting its de-lvery valve or by a weighted check valve placed between the pump and the heater. Use is made of a pump with a hollow plunger, the valve or bucket being placed in the plunger and the water de evered through it, the end of the plunger outside of the plung having an addiconstructing where it enters the pipe leading to the boiler, so that the air will be withdrawn from the beater and the packing rendered as accessible as in the ordinary feed pump.

Claim.—First, the additional eduction valves, as shown and described, closing when the

p-ton is at a sufficient distance from the end of its stroke to allow the main eduction valve to

pen with lead.

Second, the combination of the additional eduction valves, the closed heater and the injection and withdrawing pumps, substantially as shown and described.

Third, the arrangement and combination of the two pumps, differing in capacities, as de-

Fourth, the weighted check valve, or its equivalent, placed between the injection pump and

Figh, the plunger pump having a valve placed in the hollow plunger, and having the ? Inger packed by two stuffing boxes, one at the top of the pump, and the other at the entrance of the pipe or chamber.

All these claims only in connexion and combination with heating the feed water by steam

withdrawn from the induction side of the piston.

No. 35,790.-J. A. TAPELY, of Somerville, Mass.-Improvement in Hand Sawing Ma chacs.—Patent dated July 1, 1862.—This invention consists in arranging the saw to cut with or in the direction of the grain of the wood, and thus using the saw to feed forward the stuff king cut, in combination with a check roll and its gearing, which prevents the stuff from be ing dragged upon the saw so fast as to choke it.

Claim.—The saw D having its teeth constructed as represented, and arranged with its axis below the table, so as to cut with the grain of the wood, and thus draw forward the material being cut, in combination with the toothed wheel k and its operating mechanism, which will by their positive regular feeding action prevent the saw from being choked by its own tendency to draw the material forward, in the manner and substantially as specified.

No. 35,791.—J. W. VALENTINE, of Sparta, Ill.—Improvement in Bechives.—Patent dated July 1, 1862.—The hive is made to rest upon four pins secured to a bench. Upon these pins are placed inverted glass bulbs for the purpose of preventing moths from getting up into the

Claim.—The arrangement of the pins d d and glass bulbs c c in combination with the lower part of the hive, and with the bench B, in the manner described and for the purpose specified

No. 35,792.—WILLIAM VAN ANDEN, of Poughkeepsie, N. Y.—Improvement in Harvesters.-Patent dated July 1, 1862.—This invention consists in the method of constructing a compound or double-acting coupling box in combination with the driving wheels and gearing of the machine, so that each driving wheel may act independently of the other to operate the gearing, and thus permit the machine to be worked to the right or left to cut the grass. The eye on the cutter bar is formed by bending a portion of it in the shape of an inverted U, so as to cause the connecting rod for operating, to work directly upon the bar and thereby avoid the expense and labor of bolting an eye to it. The properling wheel axle is held upon the vibratory frame by means of self-adjustable boxes wo king in guides, so that the frame may have a rocking motion on the trunnions, but be prevented from having a sideway motion.

Claim.—First, the combination of the gear wheel G with the bearing f 2, forming an exter-

sion of the box F as a method of suspending the said gear wheel G upon the frame, so as to permit it to vibrate with the rocking motion of the frame, in contradistinction to the usual method of suspending the main genr wheel directly upon the axle A, thereby causing it to conform to the motion of the axle, instead of conforming to the rocking or vibratory motions of the other gear wheels suspended on the frame, to cause an easy and comparatively speaking

frictionless motion in all the gearing wheels for operating the cutters.

Second, the use of the compound coupling box, substantially as described, in combination with the propelling wheel B2 and gear wheel G, for the purposes set forth.

Third, the use of the guide boxes K in combination with the axle A and frame C, substantially as described, in combination with the axle A and frame C, substantially as described, in combination with the axle A and frame C, substantially as described, in combination with the axle A and frame C, substantially as described, in combination with the property of the combination with the property of the combination with the property of the combination with the property of the combination with the property of the combination with the property of the combination with the property of the combination with the property of the combination with the property of the combination with the property of the combination with the property of the combination with the axle A and frame C, substantially of the combination with the axle A and frame C, substantially of the combination with the axle A and frame C, substantially of the combination with the axle A and frame C, substantially of the combination with the axle A and frame C, substantially of the combination with the axle A and frame C, substantially of the combination with the axle A and frame C, substantially of the combination with the axle A and frame C, substantially of the combination with the axle A and frame C, substantially of the combination with the axle A and frame C, substantially of the combination with the axle A and frame C, substantially of the combination with the axle A and frame C, substantially of the combination with the axle A and frame C, axle A and a combination with the axle A and the combination with the axle A and the combination with the axle A and the combination with the axle A and the combination with the axle A and the combination with the axle A and the combination with the axle A and the combination with the axle A and the combination with the axle A and the combination with the axle

tially as set forth and for the purpose described.

Fourth, the method of making the inverted U-shaped eye in the end of the cutter bar, in combination with the plate r2, substantially as described and for the purposes set forth.

No. 35,793.—J. M. Wallis, of Milton, Iowa.—Improvement in Portable Fences.—Patent dated July 1, 1862.—This invention consists in giving to the upright posts or standards to which the long i udinal rails are secured, alternately an inclination in opposite directions, so that each panel presents a warped surface, and that when the tops of the several uprights are brought in line, their lower ends form a zig-zag line for the purpose of increasing the stability and firmness of the fence.

Claim.—Giving to the upright posts or standards A, which support the longitudinal rails B, alternately an inclination in opposite directions, substantially as and for the purpose

specified.

Also, the arrangement of the braces b, projecting alternately in opposite directions from the inclined posts a, in combination with the rails b b0 b1, having their ends inserted side by side between the posts a, as described, thereby forming a tie and producing a firm fence with only one brace on each standard.

No. 35,794.—Anson Warren and J. W. Martin, of Maquoketa, Iowa.—Improvement in Water Elevators.—Patent dated July 1, 1862.—This invention consists in an arrangement of parts whereby the buckets are held at the necessary distance apart, and turned into a correct position for discharging. The cord is attached to each bucket by a swivel at the extremity of a horizontal arm projecting from the top of a flat link hinged to the bucket. Attached to the upper part of the trame are spiral bow-shaped guides for the purpose of turning the ascending bucket to the right position for discharging. Cross-beams secured to the frame are so placed as to depress the inner margin of the bucket, and thus cause the spout of the bucket to project over the spout in the curb.

Claim. -1 irst, the relative arrangement of the winding pulley C and wheels D D' constructed as described, and operatig in connexion with the cord N, guides K K' and buckets E E', in the manner and for the purposes specified.

Second, the combination of the spiral bow-shaped guides K K', swivel H, horizontal arms I, and flat links J, all constructed, arranged, and operating in the manner and for the purposes

Third, the combination of the cross-beams L M, automatic valve F G, hinged links J, and spout e, operating in the manner explained to first tilt the bucket, and afterwards discharge the water through the spout a, or a'.

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No. 35,795.—ROBERT WEIR, of Philadelphia, Pa.—Improvement in Projectiles.—Patent dated July 1, 1862.—This projectile is composed of an elongated and pointed head and a stem at the rear of the same, the said stem being composed of alternate ribs and grooves which are designed to maintain the projectile in a direct course during its flight.

Claim.—The projectile consisting of the elongated and pointed head A and the stem B, the latter being composed of alternate ribs and grooves, and the whole being constructed

substantially as and for the purpose set forth.

No. 35,796.—A. L. WEYMOUTH, of Boston, Mass.—Improved Bit for Taming Horses.— Patent dated July 1, 1862.—This invention relates to an improvement in a bit for which a patent was granted to the said Weymouth, July 30, 1861, and it consists in constructing the bit so that the mouth of the animal may be distended at the will of the driver, and when not required to be thus used, is capable of being used as an ordinary bit, thereby avoiding the necessity of using two bits.

Claim.—The combination of the pivoted levers E E' with each other, and with the bars

b b, in the manner and for the purpose shown and described.

No. 35.797.—J. S. WHEAT, of Wheeling, Va.—Improved Tanning Vat.—Patent dated July 1, 1862.—The shell of the vat is constructed with tongued and grooved joints, and iron bolis running through the plank on the side of the tongues for the purpose of drawing the

joints up when necessary.

A series of framed timbers are arranged around the sides and on the ends of the vat, with iron bolts or stirrups running through them crosswise and lengthwise of the vat in such a manner that the whole can be drawn together either sidewise or endwise, and at the same time the timbers which run across the manholes and retain the manhole covers, can be removed and replaced at pleasure.

Claim.—First, the arrangement of the iron bolts crunning through the planks a of the shell Λ in combination with the tengues and grooves b, constructed and operating as and for

the purpose described.

Second, the arrangement of the framed timbers B B' C and bolts or stirrups d d' s in com-

bination with the shell A, as and for the purpose specified.

Third, the lugs *l* under the timbers B** which pass over the manholes, in combination with bolts *d***, as and for the purpose set forth.

No 35,798.—A. J. WIHTE, of East Foxborough, Mass.—Improvement in Nibs for Scythe Staths.—Patent dated July 1, 1862.—This invention consists in the employment of double or compound nibs, composed each of two wooden handles, placed on spindles, which pass inngitudinally through them. The upper and lower ends of the handles are connected by metal braces, the lower one being provided with a toothed ring which meshes into a corresponding toothed ring upon the spindle, for the purpose of changing the inclination of one of the handles to the snath. The object of the device is to admit of the mower changing his grasp to adapt the scythe for cutting either light or heavy grass.

Claim.—First, a double or compound nib, consisting of the handles a b, connected by

braces g & substantially as described.

Second, the toothed rings k m, in combination with the spindle c, for adjusting the position or incline of the handle b to the snath, substantially as set forth.

No. 35,799.—A. E. YOUNG, of Dorchester, Mass.—Improved Glass Tuble Castors.—Patent dated July 1, 1862.—This invention consists of a castor stand made of glass with a chambered and silvered base, and a glass or transparent bottle-holder, the latter being constructed with a series of flanches, annuli, or cups, arranged with respect to the upper surface of, and cut in one piece with the holder.

Claim.—I he glass castor stand, made substantially as described, viz: with a chambered and silvered or light-reflecting base, and a glass or transparent bottle stand.

Also, making the said bottle stand with annular flanches or cups, arranged with respect to its apper surface, and cast in one piece with the remainder of the bottle stand, substantially as described.

No. 35,800.—G. R. BOYNTON, of Chicago, Ill., assignor to G. G. POPE and E. F. SLOCUM, of the same place.—Improvement in Lanterns.—Patent dated July 1, 1862.—In this lantern the oil cup is encompassed by a jacket, in which a spiral passage is formed, through which the Art is admitted to the flame, for the purpose of preventing the flame from being affected by

the swinging of the lamp or extinguished by a sudden movement of the same.

Claim.—The jacket F, in combination with the spiral wire or partition d, placed in the space 4 between the jacket and the oil cup or fountain B, substantially as and for the purpose

set torth.

No. 35,801.—J. S. Bradford, of Baltimore, Md., assignor to J. C. Manning, of the same Fixe. - Improvement in Burners for Coal Oil Lamps. - Patent dated July 1, 1862. - This invention is explained by the claim. Digitized by Google Claim.—The application and use of vulcanized India-rubber as a base or bottom for burners for coal-oil or kerosene-oil lamps, and the flange or cut-off thereto, thereby breaking the metallic connexion, and preventing the communication of heat from the burner to the lamp or to the metallic socket in which said burner is fixed or screwed, in the manner and for the purpose set forth.

No. 35,802.—BENJAMIN DOUGLAS, of Middletown, Conn., assignor to W. and B. Douglas of the same place.—Improvement in Pumps.—Patent dated July 1, 1852.—This investigates to an improvement in the method of hanging "side force pumps," by which they are be so adjusted as to bring the eduction nozzle at any desired point. The brackets are as separately with a groove in their wings or bands which encompass the cylinder, and up the latter are cast beads or projections fitting in the grooves in the brackets, the latter less composed of two parts connected by bolts, and all arranged so that the cylinder may be reserved in its brackets.

Claim.—The securing of the pump cylinder Λ to its plank D by means of brackets CC formed of two parts b c, connected together by botts d, and fitted on the cylinder, substantially

as and for the purpose set forth.

No. 35,803.—George Nettleton, of Woodbury, Conn., assignor to A. F. Abbott, of Waterbury, Conn.—Improvement in Sash Fasteners.—Patent dated July 1, 15.2.—The invention consists in the employment of a bolt which is held in position by a spiral spragand operated by means of a lever provided at its inner side with a segmental projector having a V-shaped notch at its under side. This projection is fitted in a slot in a metal plan screwed to the edge of the sash.

Claim.—The combination of the bolt B, spiral spring E, and lever C, when the later's fitted in a plate D, by means of a segment projection e, provided with a V-shaped notch f, and all applied to the sill of the sash, substantially as and for the purpose set forth.

No. 35,804.—ARAD WOODWORTH, 3d, of New York, N. Y., assignor to Himself, ALBERT BRIDGES, and J. C. LANE, of Jersey City, N. J.—Improvement in Smoking Tubes.—Page dated July 1, 1832.—This invention consists in providing a separate and independent passay to conduct the smoke from the burning point in the tube to the mouth-piece so as to avalpassing it through the body of the tobacco in the process of being smoked or burned.

Claim.—The combination with the smoking tube of a suitable passage, substantially said as described, for the purpose of so conducting the smoke to the mouth-piece, essentially as set forth, as to avoid passing it through the body of tobacco or filling, for the purpose special

No. 35,805.—L. S. Alder, of Cleona, Ind.—Improvement in Machines for Saving dem Trees—Patent dated July 8, 1862.—This invention consists in the arrangement of a long-tudinally sliding frame provided with a steam cylinder, a feed motion and the necessary pulleys to give motion to the saw, in combination with a truck running upon wheels in such a manner that the said frame can be readily brought to the desired locality and position, and that by the action of the steam cylinder the saw receives the desired motion. Combined with the longitudinally sliding frame is a series of rotary adjustable disks in such a manner that the saw, together with the driving pulleys and feed motion, can be set at any desired angle.

Claim.—First, the arrangement of the longitudinally sliding frame A, containing the driving pulley F, feed motion I J K L, or their equivalent, and a saw H or H*, in comparison with the truck frame B, constructed and operating substantially as and for the purpose

set forth.

Second, the arrangement of the rotary disks MOQ, in combination with the driving pulley F, freed motion IJKL, and saw H, constructed and operating substantially as a for the purpose described.

No. 35,806.—N. Aubin, of Albany, N. Y.—Improvement in Fluid Meters.—Patent date: July 8, 1862.—This invention consists in the employment of a ball of India-rubber, or a equivalent, fitted loosely within a cylinder, which latter is provided with an aperture at each end and with a side pipe. The entrance of water into the cylinder causes the ball to not to one end of the cylinder and close the opening at that end: the pressure of water then are upon a spring plate which moves a rod and thus accurates an arm and rock shaft, by the state of the cylinder and close the opening at that end:

the water is made to enter at the aperture previously closed by the ball, which land moves along the cylinder and closes the aperture at the opposite end, when the operated.

Claim.—A reversing apparatus and valve, or valves, constructed and acting us of operation substantially as described, in combination with a cylinder or its equivalent, the flow of water is checked or caused to cease by the construction or its equivalent, for the purpose of acting substantial substantial specified.

No. 35,807.—J A. BASSETT, of Salem, Ma for Illuminating and ourposes.—Pale

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carrying out the object of this invention, consists of a series of superheating pipes placed in the lower part of a turnace in the form of a coil into which the steam passes from the boiler through a pipe, the supply being controlled by a valve. From these superheating pipes the steam passes through a pipe into decomposing retorts placed so as to receive the direct heat of the fire, and thus, during the decomposition of the hot steam by its contact with the incandescent carbon, no decrease of temperature occurs, the process being caused to go on uninterruptedly and with great rapidity.

Claim.—Preserving a uniform high temperature in the decomposing retort, by the employment of steam, superheated immediately previous to its introduction into said chamber, and introduced before its temperature is materially lowered, by means of apparatus constructed

and arranged substantially as shown and described.

No. 35,803.—Samuel Boorn, of Lowell, Mass.—Improvement in Cushions for Shuttle Bezes.—Patent dated July 8, 1862.—This invention consists of a cushion formed of disks of leather and India-rubber and a layer of curled hair, applied to a metallic case placed upon each end of the race rod of a loom, in order to receive the blows of a picker or picker staff in its forward and backward movements.

Claim.—The improved cushion, as made of a combination of leather, India-rubber, and curled hair, arranged within a metallic case B, in manner and for the purpose set forth.

No. 25,809.—TIMOTHY L. CARLEY and Amos Jackson, of Marcellus, N. Y.—Improved Water Wheel.—Patent dated July 8, 1852.—To the upper rim of the wheel is secured a hub c, provided with curved arms. In the centre of the hub is a chamber to receive the bearing E, which is made to move up and down so as to adjust the wheel in connexion with a set screw G. To the lower annular plate of the wheel is bolted a hub D, in which is fitted a brush made to move loosely around and up or down on the spindle I, upon which the wheel turns. To the upper end of the spindle is fitted a collar K to hold the pivot II, upon which the bearing E tests.

Claim.—The parts CDEFGHI and J, when made as specified, and used for the purpose set forth.

No. 35,810.—J. E. Daniels and G. S. Kendall, of Boston, Mass.—Improved Clothes Wringer.—Patent dated July 8, 1862.—The shaft of the upper roll has its bearings in two boxes, which are free to slide up and down in vertical grooves in the standards. Upon the boxes rests a rigid bar, having upon its centre a disk or block of rubber, which supports the lewer one of two arched pieces of wood-formed springs, their ends fitting in the vertical grooves. By means of a thumb screw pressing upon the upper spring, the requisite amount of pressure can be applied to the roll.

Claim.—Applying the pressure of the springs G' and H to the boxes a through the middle of the length of the bar E, substantially as described.

No. 35,811.—Henri de Lapparent, of Paris, France.—Improved Process of Preserving Road.—Patent dated July 8, 1862.—The nature of this invention is explained by the claim. Claim.—The carbonization of such parts of the wood or timber used in any structure as it may be desirable to protect by such means, by subjecting the said parts to the action of the fame of gas after they have been placed and united together in the structure, substantially as specified.

No. 35,812.—J. C. Dow, of Henderson, Minn., and IRA MYRICK, of Le Suer, Minn.—Improtement in Parallel Rulers.—Patent dated July 8, 1862.—The rollers are supported in brings at the ends of the ruler, and upon the bearings are springs, so that by pressing the meta at the point where the line is to be drawn, it will come in contact with the surface of the paper and thus be prevented from slipping.

Claim.—The application of springs made of metal, rubber, or any other suitable material, in a parallel ruler in the manner and for the purposes described.

No. 35,813.—A. A. DRAKE, of Flanders, N. J.—Improved Power for Churning.—Patent dated July 8, 1862.—This invention consists in an arrangement of gear wheels and pulleys and an oscillating beam attached to the dusher rod of a churn in connexion with a weighted but, by means of which latter, as it falls after being wound up, motion is imparted to the dasher rod.

Claim.—The churn dasher stem n, beam m, drum d, gear wheels efgh, shaft i, fly wheel j, cord B, pulleys a b c, and weight box E, when combined in the manner and for the purpose shown and described.

No. 35,814.—J. A. FREESE, of Hanover, Ohio.—Improvement in Corn Planters.—Patent dated July 8, 1862.—The seed cells in the periphery of the wheel are provided with a slide, in connexion with which is an adjustable inclined plane attached to the frame of the machine, so arranged that, at the will of the operator, it may be readily adjusted so as to actuate the seed slide to cause the seed to drop from the hopper, or adjusted so that the slide will not be actuated by it.

Claim.-The seed cell or hopper E, one or more, placed in the rim of the wheel and provided with the slide F having the spring i attached, in combination with the adjustable inclined plane G attached to the frame of the machine, all arranged for joint operation as an for the purpose specified.

No. 35,815 .-- W. P. Penn, J. Geiss, and J. Brosius, of Belleville, Ill .- Improvement ... Harresters.—Patent dated July 8, 1862.—The nature and object of this invention will be uderstood from the claim.

Claim.—Making the finger bar flat and sloping the front and rear edges thereof backway. and downward so as to give the cross section of the bar a rhomboidal form, as represented

Also, the shoulder piece J in combination with the finger, when said finger is made opt : the under side thereof, so as to leave an open space at the rear of the sickle bar under fingers, in the manner as shown and described.

We do not claim the use of the screw sector for raising and lowering the frame and curr apparatus, but we claim the screw B, the sector A, the main shaft D, and the main frame (when these several parts are constructed and arranged in relation to each other as set form

No. 35,816.—JOSEPH GILL, of Willistown, Pa.—Improved Washing Machine.—Pudated July 8, 1862.—This invention consists in the use of a semicircular tub corrugated of inner sides and hung upon axles. It is acted upon by a convex corrugated rubber. is imparted to the rubber and tub by means of levers, a rod, and arms connected to a the so as to cause them to move in opposite directions.

Claim.—The arrangement, adjustment, and combination of the levers, rods, and arms at x in connexion with the concave corrugated segmental tube and the rubber, as set forth as

described.

No. 35,817.—A. GIRAUDAT, of New York, N. Y.—Improvement in Scroll Saus.—Pu. = dated July 8, 1862.—The object of this invention is to produce a scroll saw which careasily stretched, and which is hung so that the material to be cut can be turned freely in the direction. The nature of the invention is explained by the claim.

Claim.—The employment or use of a cord F, composed in whole or part of fine rewire, and so arranged as not to interfere with the motion of the work to be cut by pacing?

through the saw kerf and close to the back of the saw in the manner described.

No. 35,818.-J. A. GOEWEY, of Albany, N. Y.-Improvement in Teakettles.-Patent dark July 8, 1862.—This invention consists in a method of attaching a cover that has a s.d. = 9 ment horizontally to a teakettle in such a manner that its flange will fall into the opening of first removing the bail.

Claim. —The combination of the stem f and socket b with the flange k of the teakettle cost. so arranged that when the cover has moved over the opening in the kettle, the flange in-

fall therein, substantially in the manner and for the purposes described.

Also, attaching the cover to the teakettle by means of the stem f and socket b in 51.14 manner that when the bail D is raised it cannot be removed from its place, substantis', a described.

No. 35,819.—J. S. Hall, of Pittsburg, Pa.—Improvement in Ploughshares.—Patert July 8, 1862.—This invention consists in forming a ploughshare with a cutter and base to a single piece of plate steel or iron by means of dies, thus avoiding the necessity of we -Claim.—Drawing and bending a ploughshare out of a single piece of steel or iron

have a blade B and cutter A upon it when finished, substantially as described.

No. 35,820.—B. F. HARRIMAN, of Warner, N. H.—Improvement in Cheese Press.—P. dated July 8, 1862.—In combination with a movable frame and stationary table is an and a a series of pulleys in such a manner that one or more of said pulleys shall be attached a centre of the lower cross bar of the movable frame, and the upper cross bar shailed parallel with the table upon which the cheese is placed, for the purpose of securing and the downward pressure upon the cheese.

Claim.—The arrangement of one or more pulleys D under the centre of the movable C in combination with the pulleys E, windlass G, and with the stationary table A, coasts of

and operating substantially as and for the purpose shown and described.

No. 35,821.-G. E. HAYES, of Buffalo, N. Y .- Improvement in Fastening Corers 17 14 canizing Flasks.—Patent dated July 8, 1862. —This invention consists in the employment two or more set screws passing through a screw ring which screws on the upper edge cylindrical vulcanizing vessel, and which bears upon the edge of the cover so that screws, acting in connexion with the screw ring, produce a partiable screws and the screw ring. the cover and the cylinder. From the lower suffice of the cover a packing so as to form a guide for the cover and sirez of the upper edge of the synthetic ring C. cover A and splinds P. and sylinds P. and sy

ring C, cover A, and cylinder B, as and for the purpose shown and described

Second, the projecting flange f, projecting from the under side of the cover A and catching on the inside of the cylinder B, as and for the purpose specified.

No. 35,822.—ISAAC HAYES, of Philadelphia, Pa.—Improved Water Wheel.—Patent dated July 8, 1×62. —This invention relates particularly to the hydraulic wheel known as "Barker's Mill," and it consists in conducting the water through a supply pipe leading from the head of the water power to the upper end of the wheel, and then in spiral directions downward through the said wheel to the discharge orifice at its circumference by means of a series of tapering spiral tubes in combination with a central chamber fixed to the shaft of the wheel and statched to the said supply pipe, for the purpose of increasing the effective power of the said Barker's wheel.

Claim.—The employment of the tapering spiral tubes A A A in combination with the central chamber C and continuous supply pipe D, the same being arranged to operate together in the manner described for the purpose specified.

No. 35,823.—DAVID HENDERSON, of Merrimack, N. H. —Improvement in Machines for Dressing and Drying Woollen Cloths.—Patent dated July 8, 1862.—This invention consists in the employment of two or more steam cylinders with the necessary carrying or guiding rollers arranged with a hot-air chamber heated by steam pipes, a rotury blower, rotating tentering wheels and brush or napping cylinders, for the purpose of subjecting woollen cloths to the process of tentering, drying, napping or brushing, and pressing, at one operation.

the process of tentering, drying, napping or brushing, and pressing, at one operation.

Claim.—The combination of the brush or napping cylinders I I, steam cylinders D D, rotary blower H, rotary tenter wheels L L, receiving roller M, and pressure roller N, all arranged

as and for the purpose specified.

No. 35,824.—J. L. HENRY, of the District of Columbia.—Improvement in Projectiles for Rifled Ordnance.—Patent dated July 8, 1862.—The nature of this invention will be understood from the claim.

Claim.—First, combining one or more flexible bands with a projectile for rifled ordnance

in any manner, substantially as described and shown, for the purposes set forth.

Second, two or more separate sets of gas channels c leading from the cavity d in the base of the projectile to the under surface of two or more bands combined with the projectile, substantially as and for the purposes set forth.

Third, causing a portion of the bands, as set forth, or the metal which secures them to the

shot, to neatly fit the bore, for the purposes set forth.

Fourth, the combination of an inflexible stop or rest with a concussion piston, arranged substantially as set forth and for the purpose described.

Fifth, the use of gas chambers beneath a band or bands, so proportioned as to contain just sufficient gas to cause the band or bands to effect the end desired, for the reasons set forth, sixth, combining a percussion piston with a shell, substantially as described and shown, say to render unnecessary a spring or other equivalent heretofore used to prevent accidental explosion.

Seventh, combining an anvil screw, or its equivalent, with a shell, in a manner substan-

y as shown and for the purposes set forth.

Eighth, the combination of the percussion piston and anvil screw with each other and with the shell, substantially as and for the purposes set forth and shown.

Ninth, combining a screw, or its equivalent, with a sheil so as to admit of being adjusted from the outside of the shell to expose the cap within, substantially as set forth.

No. 35,825.—W. W. HUBBELL, of Philadelphia, Pa.—Improvement in Projectiles for Rifled Ordanaec.—Patent dated July 8, 1862.—This invention is designed as an improvement upon the patent granted to the said Hubbell January 24, 1860, and it consists in extending the thin metal tacing, forward of the soft metal filling, and around the cylindrical hard body of the potentile, so as to secure it more firmly while the soft metal expands outward with the back last of this metal facing. In the groove forward of the bevel face or expanding portion of the soft metal is placed a coil of galvanized wire, so as to secure it by strengthening that part which is fast in the groove. The expanding portion of the soft metal is strengthened by caster it around a tinned sheet-iron ring, which expands outwardly with the soft metal. An annular groove is formed in the copper band or facing with the lead filling underneath and bland it, to secure the facing more firmly, and prevent it from stripping backward.

Claim.—First, extending the facing of copper or similar metal forward of the soft metal filling, and around the cylindrical hard metal body of the projectile, so as to secure the facing tene firmly, while the soft metal shall expand outward, with the back part of this metal facing

into the ride grooves of the gun, substantially as described.

second, in further securing the removing or expanding portion of the soft metal by the coil

of wire in the front part of the metal within the groove d, as described.

Third also in strengthening that part of the soft metal which expands, by casting it around the timed sheet-iron ring, with slits or otherwise, to expand with the soft metal and hold on that the muzzle of the gun, substantially as described

Fourth, also in further securing the copper or outer facing to the soft metal, by forming the annular groove c in it, with the lead filling underneath and behind it, substantially as de-

wribed.

No. 35,826.—ALLEN JUDD, of Springfield, Mass.—Improvement in steam Engines.—Patent

dated July 8, 1852.—This invention is explained by the claim.

Claim.—One or more cylinders, with piston rods to match them, applied to a fly wheel, the cylinders being hung to the wheel in such a manner as to be permitted to vibrate, and the piston rods to be hung at one end to a stationary shaft set within said wheel, one side from its centre, so as to give a vibrating motion to each cylinder and its piston rod as they retain with the wheel, and give a propelling force to it by the pressure of steam, all as shown.

No. 35,827.—D. F. and A. P. Luse, of Spring Mills, Pa.—Improvement is Stamp Entractor.—Patent dated July 8, 1862.—This invention consists in so attaching the lever to be elevating racks that each rack shall act alternately as the fulcrum of said lever, while have allowed a certain degree of deviation from a vertical line to accommodate them to be varying line of draught. The pawls or dogs, which engage with the rack, are composed as segment provided with a series of holes, and rising from a forked piece pivoted to eas an entraction of the block. A rod connects this segment with a pin that slides between the segments and amount attention to the block.

municates to it a longitudinal movement in relation to the block.

Cta.m.—The combination of the lever G, with the racks F F', when each of the said raise act alternately as the fulcrum of the said lever, and when both are allowed to change in line of draught by means of the rounded block A and bevelled mortises e e, substantially as

described.

Also, the combination of the segment i, pin l, and rod n, as and for the purpose specific

No. 35,828.—John McLaughlin, of Monongahela City, Pa.—Improvement is Star Creters.—Patent dated July 8, 1862.—This invention consists in an arrangement of levers, cars slides, cutting and pressing frames, in combination with a straw box having an oscillaing aborizontal motion.

Claim.—The straw box a, furnished with slides m, said box having horizontal and estimating movements, in combination with rod l, cam e, frames f and h, and strap i, arranged

constructed, and operated in the manner described and for the purpose set forth.

No. 35,829.—J. L. McPherson, of Sacramento City, Cal.—Improvement in Pumps.—Pacadated July 8, 1832.—The object of this invention is to obtain a pump which may, by a semanipulation, be changed from a force to a lift or suction pump, and vice versa, and a semantangement of parts, have its plunger rod form an air chamber and buoy combined, seach of the aforesaid elements will perform its proper function equally as well as if approximately in the ordinary way. Its construction does not admit of a brief description.

Claim.—First, the movable box C, in the lower part B of the pump cylinder, provided rist the tube D and valve F, and arranged, as shown, to admit of a chamber E around the tube P.

within the box C, as set forth.

Second, the central valve tube H in the plunger box G, in connexion with the inner-clined side of the plunger box and the inclined or inverted cone-shaped end m of the tube I for the purpose of forming a chamber L around the tube II, and also for the purpose of sering the packing B to or in the plunger box, as described.

Third, the tube J arranged and applied to the plunger box G, and within the pump cyling as shown, performing the triple function of a plunger rod, air chamber, and buoy, as set 1.2. Fourth, the leve P, when arranged as shown, to be capable of being made fixed or to 1.4.

and used in connexion with the lever O and tube J, as and for the purpose specified.

No. 35,830.—Laurs and JACOB MILLER, of Canton, Ohio.—Improvement in Harreson.—Patent dated July 5, 1862.—The nature and object of this invention are explained by inclaim.

the drive wheel and reel shaft, so that the reel may accommodate itself to the raising and leaving of the platform, and be susceptible of being raised or lowered on the reel post with slacking the belt or belts, substantially as described.

Also, in combination with the hanger, the split or divided journal box, and adjusting deconnected to it, so that the journal box, as it wears away in the direction of the resistance the pitman or cutters, may be set up to the shaft that works the cutters, substantially as an experience of the resistance of the pitman or cutters, may be set up to the shaft that works the cutters, substantially as an experience of the resistance of the resist

for the purpose set forth and explained.

No. 35,831.—J. C. Moore, of Peoria, Ill.—Improvement in Corn Planters.—Patent is July 8, 1362.—This machine is constructed with two frames, one supported upon wheels in the other, which carries the seed-distributing mechanism, supported by runners or planteness and frames being connected by a swivel hinge in the centre, and guiding buffers on sides, in such a manner that each frame can accommodate itself to the inequalities of ground independently of the other, and that by depressing the rear end of the after frame, central portions of both frames will be raised, and the ploughs thrown out of the ground lever is arranged with its bearings, one on the front part of the forward frame, and one was and behind the axle, which supports the after frame, so that by the weight of the operative two frames be may kept nearly level, and the ploughs prevented from rising out of the ground.

Claim.—First, the arrangement of the swivel joint a, and guiding buffers e f, in combination with the frame A, supporting the driver's seat D, and with the frame B, carrying the seed-ropping mechanism, constructed and operating as and for the purpose shown and described. Second, the arrangement of the lever I, in combination with the hinged frames A B, contructed and operating as and for the purpose set forth.

No. 35,832.—FRANKLIN MUZZY, of Bangor, Maine.—Improvement in Machines for Sawag Shingles and other Lumber.—Patent dated July 8, 1862.—This invention consists in the ombination with a circular saw, of a carriage fed downwards by means of a connexion with he power that operates the saw, in a direction so nearly perpendicular as to present the centre the shingle block to the upper half of the saw; it also consists in an arrangement of devices or changing the motion of the carriage, setting the block, and automatically regulating the sed motion of the feed carriage to correspond with the width of the block.

Claim.—First, reversing the reciprocating vertical action of the carriage for feeding the bolt the saw automatically by the operation of the mechanism or its equivalent, connected with

be vibrating shaft P, substantially as described.

Second, the combination of the latches c d, pressure cam a, and pivoted standard f, operated reither weights or springs, to throw the pinion p in and out of gear, substantially in the

anner explained.

Third, the combination of the lever i, pawl i', and wheels S 1 and S 2, actuated by suitable tads or cams m k, so as to move the racks h h' forward alternately or simultaneously as exlained, in connexion with a shingle machine carriage, moving in a direction so nearly perendicular as to present the centre of a shingle block to the upper half of the saw, substantially

Fourth, the gauge lever 2, and the trip lever 5, employed in combination with the latch d, regulate the motion of a shingle machine carriage, moving so nearly perpendicular as to resent the centre of the shingle block to the upper half of the saw, substantially as set forth. Fifth, the combination of the stud R, slide R 1, and hooks R 2 R 3, operating in the described onnexion with the head block N, and trip lever 5, to arrest the motion of the carriage when he bolt is worked up.

No. 35,833.—Cæsar Neumann, of Boston, Mass.—Improvement in Mittens.—Patent and July 8, 1862.—Across the palm or back portion of the mitten, or in the direction of slength, is a slit, by means of which the portion covering the fingers can be easily removed ad tumed back upon the hand without removing the whole mitten. The thumb covering Ay also be made to operate in a similar manner.

Claim.—So forming and constructing a mitten or covering for the hand, that the part which were the fingers is susceptible of being turned back upon the hand so as to leave the largers free without entirely removing the mitten, substantially as described.

Also, forming a slit in the thumb covering, so that it may be turned back upon the mitten ad have the thumb free, substantially as described.

No. 35,834.—WILLIAM PAINTER, of Fallston, Md.—Improvement in Counterfeit Coin nuctors.—Patent dated July 8, 1862.—This invention consists in the employment of one more suspended or tilting spouts applied to a counter or table over a drawer or receptacle, arranged with gauges in such a manner, that each piece of coin in its passage through * detector is weighed and gauged, and any spurious piece, which cannot pass these tests, iil be at once detected.

Claim.—The particular arrangement of the horizontal plate A, vertical plate a, inclined lane b, and spout I, provided with the slide c c, and stop g, and suspended between the radrat yielding rods d d, substantially as and for the purpose set forth.

No. 35,835.—L. C. OBER, of Boston, Mass.—Improvement in Lanterns.—Patent dated a y 8, 1862.—This invention is explained by the claim.

Claim.—The arrangement of India-rubber or other elastic packing between the deflector,

proper and glass casing of the lantern, whereby the currents of air are prevented from being up between the said supporter and the casing, and are caused to flow into the deector, and through and around the outer surface thereof, substantially in menner and for e purpose set forth.

No. 35,836.—W. P. PENN, JACOB GEISS, and JACOB BROSIUS, of Belleville, Illinois. aprovement in Harvesters.—Patent dated July 8, 1862.—The object of this invention is to lovide a simple and efficient means for raising and lowering the cutting apparatus, and for ding it at the desired height from the ground, or for allowing it to drag upon the ground thout disuniting the operating gearing; and also to provide the belt, which drives the reel, the yielding tightener, by means of a spiral spring around the adjusting screw attached the journal box, which supports the journal of the reel shaft, so that the end of the reel with is suspended from the spring, and in case the belt shrinks or twists it will still continue. OP-Tate. The caster wheel is pivoted to a sector hinged in lugs upon the outside of the see so as to swing in a horizontal plane. The sector is provided with a series of holes near its periphery to correspond with a hole in the arm, by which means the outer end of the

cutting apparatus can be raised and lowered to correspond with the rear end.

Claim.—First, the bracket B, the circular plate E, the main shaft C, the lever F, the main frame A, and the driver's seat G, arranged in respect to each other, substantially in the manner described for the purpose specified.

Second, in combination with the reel post and shaft S, journal box R, and screw Q, the

spring P, as shown and described for the purpose specified.

Third, adjusting the caster wheel k, by means of the perforated arms L, perforated segment M, and pin f, in the manner and for the purpose shown and described.

No. 35,837.—James Perry, of Brookyln, N. Y.—Improved Apparatus for Measuring 0s and Discharging Dough under Pressure.—Patent dated July 8, 1862.—This invention designed to be used in the manufacture of bread, the dough and paste for which are kneeded and prepared under a pressure of gas in a closed vessel, and it consists in a method of di-charging the dough from the kneading vessel so that the loaves shall be uniform in size and appearance. An intermediate kneading chamber is used between the main kneading version and a measuring device and a piston and cylinder, arranged and operated in such a manner as to measure and discharge the dough received through the said intermediate chamber will rapidity and regularity.

Claim.—First, the employment of a piston and cylinder, in combination with means for varying the extent of the motion, for the purpose of measuring out the exact quantity of dough to form the several-sized loaves, and to regulate the flow thereof, substantially as set

Second, regulating the force of the discharge of the dough from such cylinder by the application of a greater or less resistance to the motion of the piston, for the purpose set forth Third, the use of an internal cylinder having a partial rotating or equivalent movement in combination with a piston moving in accordance with internal pressure in the kneading machine, for the purpose above specified.

Fourth, the employment of a receptacle interposed between the kneading vessel and a decharger, so as to promote the effective operation of the latter, and to prevent the escape and

loss of gas, substantially as set forth.

No. 35,838.—JACOB REESE, of Pittsburg, Pa.—Improvement in Furnaces for Coal Oil Stills.—Patent dated July 8, 1862.—The nature of this invention will be understood from the claim, the object being to construct a still of any required length or capacity, and with a fire chamber under it throughout its entire length in such a manner as to prevent the exposure of any seam, joint or rivet to the action of the fire, and also to prevent any oil from escaping from such joint or seam to the fire.

Claim.—The mode described, of constructing stills, the bottom of which is composed of more than one piece, and furnaces therefor, in such a manner that all the joints, seams, and rivets which are placed inside of the fire chamber shall rest upon or be covered by walls at supports of brick work or cement, and thus protected from the direct action of the fire, substan-

tially in the manner and for the purpose set forth.

No. 35,839.-J. R. ROBERTSON, of Syracuse, N. Y.-Improvement in Vegetable Cutters. Patent dated July 8, 1862.—This machine consists of a box containing a hollow cylinder. having upon its periphery a series of cutters, arranged as shown in the engraving, so that is the cylinder revolves the cut matter will be forced into the interior of the same, and drop out at its open ends in thin and narrow strips.

Claim.—The combination of the box A, hopper d, and cylinder C, with its cutters, custructed and arranged substantially as described.

Also, leaving the ends of the cylinder open for the escape of the cut matter, when said cylinder is constructed with its cutters, arranged as described and combined with the hopper. substantially as and for the purposes set forth.

No. 35,840.—G. C. G. SAUR, of Washington, D. C.—Improved Hair Dye.—Patent dated July 8, 1862.—The wash used in this preparation consists of water, alcohol, and gallic acid. and the solution consists of a compound of nitrate of silver, gum-arabic, spirits of ammonia and distilled water.

Claim.—The wash No. 1, and solution No. 2, when compounded and applied, substantially as and for the purpose described.

No. 35,841.—C. G. SCHNEIDER, of Washington, D. C .- Improvement in Chamber Buckets -Patent dated July 8, 1862.—This invention consists in securing the cover to the vessel by means of a handle operating a cross-bar secured to the lower end of the shank of the handle The ends of this cross-bar pass under inclined offsets upon the inner side of the vessel, and as it is moved around draws the cover tightly upon the vessel, the pressure being increased by the introduction of a spring surrounding the shank of the handle on the upper side of the cover.

Claim.—Securing the cover E to the annular head or top B of the vessel by means of the handle G, the cross-bar K, which is secured to the lower end of the shank F of said andle, the spring m, which embraces the said shank of the handle above the cover, and the facts D D, from opposite sides of the inner periphery of the said ring-shaped top B of the essel, when the said parts are arranged and are made to operate substantially in the manner id for the purpose set forth.

No. 35,842.—JEHYLEMAN SHAW, of Bridgeport, Conn.—Improved Apparatus for Saving Area from Waste Solutions.—Patent dated July 8, 1862.—The nature of this invention will studentood from the claim.

Claim.—First, attaching to the waste-pipe of the sink or basin, into which persons using, ler in solutions suffer them to be wasted, a vessel so arranged and constructed that the luids passing from the sink shall run into, through, and out of said vessel, and between the set of entering said vessel and escaping therefrom shall be brought into contact with such smirals or metals as will cause the whole or any part of the silver contained in solution to precipitated and retained in said vessel, while the worthless material is allowed to escape. Second, the use of the filter B, or its equivalent, for the purpose of preventing small parties of silver from escaping after the liquids have been brought into contact with the chemils, as described.

No. 35,843.—ZADOK STREET, of Salem, Ohio.—Improvement in Brick and Tile Machines.—
tent dated July 8, 1862.—A sliding gate is employed to close the apertures in the lower
t of the grinding-mill, communicating with the pressing machine, for the purpose of sepating the clay which is to be pressed into the mould from that which remains in the mill.

22 the lower edge of the gate is hinged a follower, which is actuated by a lever to press
e clay into the moulds. In connexion with the above is a movable mould, provided with
titions of a material adapted to impart a smooth surface to the bricks. Attached to each
d of a bar, sliding on guides, is a wire which is drawn forward to produce an even separan between the clay from the moulds and that left within the box from which it is taken.

Claim.—First, the combination of the sliding gate E, follower A, hinged thereto by its
are edge and lever h, constructed, arranged and operating in the manner described, to first
arate the clay in the box D from that within the mill A, and afterward press the former
wnward and outward into the moulds I, all as specified.

Second, the wire cut-off K, so arranged and operated by means of bars L and guides l l as separate the surplus clay from that pressed into the moulds, as described.

No. 35,844.—George Stump, of New York, N. Y.—Improvement in Evaporating Pans r Saccharine Liquids.—Patent dated July 8, 1862.—This apparatus consists of a double-imbered bed-plate combined with a double set of C-shaped tubes, which rise from a schable tube-sheet in the interior of the pan, and which form a double connexion between two chambers of the bed-plates in such a manner that steam introduced into one of said imbers passes through the C-shaped tubes into the other chamber, which arrangement of heating-tubes admits of an extension heating surface at different levels of the liquid, and he same time the water, which may condense in the said tubes, readily runs off into one other of the chambers, and thus any danger of freezing is avoided. The tubes may also readily cleaned on the outside without breaking any joint, and on the inside by removing tube-sheet.

Naim.—The arrangement of the double-chambered bed-plate B, in combination with the schable tube-sheet C, double set of C-shaped heating tubes E E', and pan A, all conceed and operating substantially as and for the purpose shown and described. Iso, the double set of C-shaped heating-tubes E E', bent at different heights and at differwidths, in combination with the pan A, as and for the purposes specified.

io. 35,845.—MATTHIAS SWANK, of Philadelphia, Pa.—Improvement in Relieving Steam lers of Cinders.—Patent dated July 8, 1862.—This invention consists in connecting the tom of the interior of the combustion-chamber, or that part of the boiler between the flueter and furnace, with the outer shell of the boiler, by means of tubes which may be opened lossed at pleasure by a sliding-valve on the exterior of the boiler, whereby the ashes and lers that collect in the bottom of the combustion-chamber may be readily removed.

Vaim.—The combination and arrangement to relieve combustion-chambers of steam-boilers, but part of the boiler between the furnace and flue-sheet, of ashes or cinders, substantially expresented and operated for the purpose set forth.

o. 35,846.—T. R. TIMBY, of Worcester, Mass.—Improvement in Revolving Battery ers.—Patent dated July 8, 1862.—This invention consists in combining with a revolving er a central and independently revolving shaft, upon the top of which and in close proxy to the look-out is arranged the commander's platform or station, which is under his tant control, so that it may, at his option, be revolved in either direction, or remain onary. irrespective of the condition of the tower, whether the latter be in motion or at rest. aim.—A revolving tower for land or water, designed for offensive or defensive warfare, a combined with an independently rotating shaft, upon the top of which is arranged the mander's platform or station, as described.

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No. 35,847.—T. R. Timby, of Worcester, Mass.—Improvement in Discharging Guns in Revolving Towers by Electricity.—Patent dated July 8, 1862.—The nature of this invention

will be understood from the claims.

Claim.—First, arranging a telescopic or other sight, or an index on a platform capable of revolving independently of the tower in a direct vertical plane over a circuit-closer, or a series of them, having metallic connexion with a bar attached to, but insulated from said revolving shaft, as and for the purpose specified.

Second, making the independently-revolving shaft in connexion with the metallic struc-

ture of the tower, a part of the electric circuit, as described.

Third, attaching to and insulating from said revolving shaft a vertical bar revolving therewith, to which is metallically attached one or a series of circuit-closers, and which form another part of the electric circuit, as set forth.

Fourth, placing the battery on or under the commander's platform, so that it shall revolve therewith, the poles of the said battery being connected with the shaft which carries the said

platform and the attached but insulated bar, as and for the purpose described.

Fifth, the described construction of the circuit-closers, operated by springs so as to be allowed to pass each other, and then revert automatically to their original position.

Sixth, the form and construction of the platinum wires, whereby the electric circuit is pre-

served and the vent or fuze penetrated, as set forth.

Seventh, the arrangement of the conducting wires, whereby, in connexion with the tower, the shaft, platinum, wires, bar and circuit-closers, the electrical circuit is completed, as described.

No. 35,848.—W. H. Towers, of New York, N. Y.—Improvement in Skeleton Skirts.— Patent dated July 8, 1862.—This invention consists in combining in one garment the hop skirt and a small bandage or corset in such a manner as not only to cause the latter to form a wide belt for the support of the hoop skirt and skirts outside and a substitute for corsets, but also serves as a brace to support and hold the bustle of the hoop skirt in its proper position.

Claim.—Combining a hoop skirt and corset, with bustle attached, in one garment, in the

manner and for the purpose set forth.

No. 35,849.—R. D. TURNER, of New York, N. Y.—Improvement in Car Coupling.—Patent dated July 8, 1862.—Each bumper head of this coupling is provided with a link permanently secured within a flaring mouth by means of a pin. At the front end of a longitudinal slot, in the upper side of the mouth of each bumper head, is hinged a catch which falls into a notch or shoulder formed in the lower side of the mouth of each bumper head when the conmexion is made. The hinged catches are formed so as to swing freely inwards and upwards when they are outwardly struck by the links, and also provided with a shoulder to prevent them from being elevated to such a position as to reset themselves by gravity when relieved from all lifting force.

Claim.—The use of the permanent pins K K', the links I I', and the hinged catches B B'. when arranged with the bumper heads A A' of said coupling, in such a manner that the said

parts are enabled to jointly operate with each other, substantially as set forth.

Also, the permanent attachment of a link to each bumper head of the improved car coupling, when a vibrating catch is pointed to each of the bumper heads, substantially in the manner and for the purpose set forth.

Also, when a vibrating catch B and a link I are permanently connected with each bumper head or the improved car coupling, closing the mouth of the catch-receiving slot in the upper side of the mouth of the said bumper head by means of the flanged projection from the head

of the said vibrating catch, substantially as represented in the drawings.

Also, giving such a shape to the head portion of each hinged catch B or B' as will prevent it from being elevated to a higher position than that represented in the drawings; but this only when the vibrating catches B B' and the links I I' are combined with the bumper heads A A', in the manner represented in the drawings.

No. 35,850.—A. H. VAN GIESON, of Newark, N. J.—Improvement in Leather-Splitting Machine.—Patent dated July 8, 1862.—This invention consists in the employment of a bel or table, of the form shown in the engraving, over which the leather is drawn before coming in contact with the knife that splits it, in connexion with an adjustable gauge directly in front of the edge of the knife and one in the rear of the same. The leather is pressed down upon the beds by fingers which are held down by means of levers weighted at their outer ends. The leather is held upon the bed, before the fingers begin to act upon it, by a roller. and is drawn through the machine by means of a roller, upon which it is prevented from slipping by a friction roller. The knife is attached to a rod which is actuated by means of a cam and the driving shaft and a spring, so as to produce a reciprocating motion.

Claim.—First, the combination of the bed I, fingers 2 2, guage 6, guage 25, and roller 5,

constructed and operated as described.

Second, the combination of the bed I, fingers 2 2, guage 6, guage 25, and roller 5, with the knife 7, and rollers 9 and 10, as set forth. Digitized by GOOGLE

No. 35,851.—LOUIS WACKER, of Buffalo, N. Y.—Improvement in Lining Billiard Cushons.—Patent dated July 8, 1862.—The cushion, which is composed of India-rubber, secured o a seat, is covered with a strip of previously prepared raw hide, which has been stretched early to the extent of its tension and dried, after which it is made of an equal thickness nd chemically prepared and subjected to a heavy pressure.

Chem.—The combination of the covering C, of raw hide, prepared in the manner specified,

with the billiard cushion B D E d, constructed and arranged as shown and described.

No. 35,852.—J. A. WHITNEY, of Maryland, N. Y.—Improvement in Harvesters.—Patent lated July 8, 1862.—The nature and object of this invention are explained by the claim and

ngraving.

Cla.m.—First, the combination of the sickle and its driving mechanism with the swinging connexion with the main frame A, and geared wheel rame G, constructed and operating in connexion with the main frame A, and geared wheel i, substantially as shown and described, so that when the front end of said frame is raised he vibrations of the sickle will cease; and when said frame is allowed to descend, the

kiving mechanism of the sickle will fall into gear by its own gravity; all as set forth.

Second, the combination of the lever F, with the swinging frame G, and the driver's seat
D, as shown and described; so that when said lever is pushed forward the sickle will be aised and its vibrations will be stopped; and when said lever is pulled backward in the nanner described the sickle will be temporarily raised without stopping its vibrations; all set forth.

No. 35,853.—CHARLES BURLEIGH, of Fitchburg, Mass., assignor to PUTNAM MACHINE COMPANY, of the same place.—Improvement in Friction Pulley.—Patent dated July 8, 1862.— This invention consists in the employment of a pulley fitting loosely upon a shaft and lriven by a belt from any suitable power, in combination with a friction ring which is cut pen at one part so as to admit of its expanding, by means of which, when operated by a even, its outer face is caused to come in contact with the inner face of the pulley, and thus, ly friction, moves the latter and drives the shaft.

Claim — The loose pulley B, in combination with the expanding ring D, connected with

he shaft A, and operated substantially in the manner specified.

No. 35,854.—J. F. GREENE, of Warwick, R. I., assignor to S. T. B. Tobey, of Provilenue, R. I.—Improved Water-proof Fabric.—Patent dated July 8, 1862.—This invention rexplained by the claim.

Claim.—The combination of the disintegrated fibres of felt, or fur, with a surface of Indiaabber, either in sheets or when attached to a base of textile or felted fabrics, or to leather, o as to form a new evenly-napped water-proof fabric, substantially as described.

No. 35,855.-J. S. GREENE, of Warwick, R. I, assignor to S. T. B. Tobey, of Provilence, R. I .- Improved Machine for Manufacturing Water-proof Fabrics .- Patent dated by 8, 1862.—In the operation of this machine the upper and lower calender rolls are heated o a suitable temperature by steam, in the usual manner, when the calender is put in motion md an endless band moves with it beneath the sifting machine, which is also put in motion. The flocks or fibre fall upon the surface of the coating of India-rubber and are carried with be endless band between the rolls of the calender, when they are combined with the rubber oftened by the heat. In combination with the above are two cylindrical brushes, revolving t different rates of speed, and serve, the one to remove the surplus fibre and cause that which is combined with the softened India-rubber to lie in nearly parallel lines, while the apper brush serves to remove any flocks or fibre which may adhere to the cloth.

*Claim.—The combination of the calender rolls, the machine for sifting fibrous flocks, and

he brushes to cause the fibres to be laid straight and to move the surplus, operating upon a sabric composed of a sheet or surface of India-rubber, attached to cloth or other material, as a base, and producing a napped or flocked India-rubber fabric by one operation, substantially

14 described.

No. 35,856.—J. M. HORTON, of Albany, N. Y., assignor to J. H. HUMPHREY, of the lame place.—Improvement in Shank Socket for Auger Handles.—Patent dated July 8, 1862. surrounding the centre of the handle of the auger is a metallic band, from the lower side of which projects a cylinder having recesses on opposite sides and across the bottom for the puryose of receiving jaws or grips which fit within the recesses and move to and from the centre of the socket. A screw-thread is cut upon the cylinder upon which is fitted a nut to hold he grips in place, by which means the socket is readily adapted to augers of different sizes. Claim.—The band A with its projecting cylinder C, having a screw-thread cut upon it, and

laving the recesses a and b formed therein to receive the grips, the grips B and D formed and fitted as described.

Also, the nut N fitted to the screw-thread of the cylinder, the whole arranged and comfined substantially in the manner and for the purpose set forth in the specification.

No. 35,857.—E. R. Scott, of Philadelphia, Pa., assignor to Himself and W. L. Germon, of the same place.—Improved Apparatus for Producing Vignetts Photographs.—I'rent dated July 8, 1862.—This apparatus is composed of a metallic frame, having slight elevated sides in a groove in the upper part of which slides a metallic plate. This plate. provided with an oval opening corresponding to the size of the vignette required, and with it is a ground-glass plate. A small metal plate is also arranged to be slid over more or in of the lower portion of the oval, in order to cut off the lower portion of the vignette and : display of the body.

Claim. - First, the combination of the frame AA with elevated sides B B, sliding place C.

oval opening D, and ground-glass E.

Second, making the plate C, which contains the oval opening, slightly elevated above & glass negative.

Third, the use of a sliding plate X to cut off the lower portion of the oval if desired.

No. 35,858.—JOSEPH SEDGEBEER, of Cincinnati, Ohio, assignor to Himself and June L. HAVEN, of the same place.—Improvement in Millstone Dress.—Patent dated July 1862.—This "dress" is designed to be applied only to mills with cast-iron grinding surface and it consists of a series of Y-shaped figures arranged one above the other in radial late. from the periphery to nearly midway to the eye; from thence on every alternate radis. of figures, larger sized Y's are formed, making a zigzag passage outwards from the cycli the plate.

Claim.—A mill dress, consisting essentially of a series of graduated Y-shaped figures arranged radially upon the grinding plate, whether horizontal, vertical, or conical, sulet-

tially as and for the purpose set forth.

No. 35,859.—C. W. Trow, of South Reading, Mass., assignor to CYRUS WAKEFIELD. the same place.—Improvement in Ratan Machinery.—Patent dated July 8, 1862.—The coldof this invention is to perform the operation of removing the knots or excrescences upon the ratan, the splitting or dividing its surface into separate parts or strands, of dressing finishing the said strands to the proper form, and of removing them from the core, all FROM sively and continuously in one machine, so that the ratan entering at one end shall is a d the other in strands dressed and finished for use, together with the core which may be usin the manufacture of baskets, &c.

Claim.—The employment, in combination with feeding rollers, of a series of self-adjustic scraping knives, constructed, arranged, and operating as described, to close against the suface of the ratan whatever its diameter may be, and yield to all inequalities other than 🗠

knots or excrescences, as set forth.

Also, the angular marking and dressing knives in combination with the feeding main

ism of ratan machinery, substantially as described.

Also, the combination with the knives provided with the dressing, cutting edges of a : 2. lar coring cutter, arranged substantially in the manner and for the purposes set forth.

Also, the combination and arrangement of the apparatus described, performing the error operations of dressing, splitting, coring, and finishing the ratan successively and could outly in one machine, in the manner as set forth.

No. 35,860.—N. W. WILLIAMS, of Frankfort, Pa., assignor through mesne assignment. Himself.—Improved Lamp Burner.—Patent dated July 8, 1862.—The object of this intertion is to dispense with the glass chimney in coal-oil lamps. The wick-tube which is sector to the cover of the reservoir, and is of greater length than usual, is surrounded by an egated casing or cap, having its lower end enlarged so as to overhang the cover and admits a free passage of heated air to the flame. The casing is connected to the wick-tule : means of strips cut from the sides of the cap.

Claim.—First, the exterior casing E with its oblong opening f, in combination with clongated wick-tube D, when so arranged and connected together as to leave an unobstruction opening below for the free admission of air to the chamber between the casing and the us

as set forth for the purpose specified.

Second, flaring the lower end of the casing E so as to overhang the cover A and perthe gases passing from the reservoir at the point where the cover is secured to the same pass upward into the chamber P, as set forth.

Third, securing the exterior casing to the wick-tube by means of strips i bent from a

forming part of said casing, as specified.

No. 35,861.—E. L. Wilson, of Philadelphia, Pa., assignor to C. H. Morgan, of same place.—Picture Envelope.—Patent dated July 8, 1862.—The object of this invention to construct an envelope so that an enclosed picture may be seen by simply lifting the saffap without removing the picture, and thus prevent it from being soiled. The envelope provided with an opening through one of its sides and a seal flap of sufficient size to or the opening.

Claim.—An envelope constructed with an opening through one of its sides, in combin

tion with a flap adapted to cover said opening, substantially as set forth.

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No. 35,862.—J. R. WEBB, of Jackson, Mich.—Improved Portable Evaporator for Sactorine Juices.—Patent dated July 8, 1862.—This apparatus consists of an oblong rectangular box supported upon wheels and extending upwardly at the rear so as to form the front end of another and a shallow box upon which is placed a shallow pan. At the rear end of the main box, beneath the compartments of the finishing pan, are two flues communicating at their front and rear ends with the fire and flues respectively, and so arranged that, by means of a damper, the heat may be shut off from the finishing pan and a current of cold air admitted, by which the contents of the pan are rapidly cooled. A pipe H enters the compartment above the filtering machine, and extends to the front end of the pan. Attached to the evaporating pan are weighted indexes or pendulous arms hung on pivots, for the purpose of levelling the apparatus for operation.

Claim.—First, mounting the evaporating apparatus on wheels, in the manner and for the

purpose substantially described.

Second, the flues h l i b' and air passage n, in combination with the damper l, when arranged under the finishing compartment f g, in the manner and for the purposes set forth.

Third, the pipe H leading from the filter r to the front end of the evaporating pan, in the

manner and for the purpose described.

Fourth, the combination of the strips or ribs a attached to the inner sides of the evaporating pan with the partitions m, in the manner and for the purpose set forth.

Fifth, the described arrangement of the evaporating finishing and clarifying pans.

Sixth, the combination of the weighted indexes or pendulous arms J with an evaporating apparatus, when arranged in the manner and for the purpose set forth.

No. 35,863.—R. R. MOFFATT, of Lacrosse, Wis., assignor to Himself and HANNAH HORTLEY, of the same place.—Improvement in Breech-Loading Ordnance.—Patent dated July 8, 1862.—The breech-pin is formed like the frustum of a cone, its upper end being concave; it forms a part of the breech-piece which is hinged to the rear of the gun. The trunnions have their bearings in a strap which extends back so as to embrace the breech of the gun. The breech of the gun is raised and lowered by means of a lever, and the breechpece and pin are drawn back by a chain attached to the lever, the breech-piece falling upon the straps. Lugs are cast upon the breech of the gun, having their front sides bevelled to fit m corresponding recesses upon the inside of the strap for the purpose of relieving the trun-nons of all strain when the gun is fired, and compensating for their wear.

Claim.—First, in combination with the breech of the gun, the hinged breech-piece and

pin and strap B, substantially in the manner described for the purpose specified.

Second, in combination with the lever C and hinged breech-piece, the chain H, substantially in the manner described for the purpose specified.

Third, in combination with the breech-piece of the gun and the strap B, the lugs P and recesses F, substantially in the manner described for the purpose specified.

Fourth, in combination with the breech of the gun and the circular groove v in the breechpiece, the shoulder g, substantially in the manner described for the purpose specified.

No. 35.864.—Anthony B. Allen, of New York, N. Y.—Improvement in Corn Shellers.—Patent dated July 15, 1862.—This invention relates to the construction of a cast-metal standard, which forms one side of the hopper into which the material is to be fed, and is also designed to sustain the journal-bearings of the moving parts of the machine and support the springs which hold the ears of corn up to the faces of the spur wheel and bevel wheel, while the seed is being removed from the cob.

Claim.—The metallic standard piece A constituting one side of the hopper bearing for spur-wheel C, and for the bevelled balance-wheel, also constituting a support for holding spring I by means of the flanges at and a9, whether said standard be made in one or more

pieces, substantially in the manner and for the purpose set forth.

No. 35,865.—JOSEPH BATTIN, of Newark, N. J.—Improvement in Steam Generator.—Patent dated July 15, 1862.—This invention consists in so arranging and combining the water-feeder of steam generators as to inject the water at the point furthest from where the fire comes in contact with the generator, and applies more particularly to that class of steam generators which are not, properly speaking, water boilers.

Claim.—The steam generator, when constructed and fed substantially in the manner and

for the purpose herein above specified.

No. 35,866 .- E. S. BLAKE, of Pittsburg, Pa. - Improvement in Lamp Chimneys .- Patent dated July 15, 1862.—This invention consists in the employment of several pieces of glass, constituting in whole or in part the shaft of a lamp chimney, so that in case of the breaking of any one of the pieces it may readily be replaced by a new piece. This shaft rests upon a base consisting of a metallic plate perforated at its centre. The top of the chimney thaft is provided with a shield or cover to prevent the flame from being extinguished by curtents of air.

Claim.—First, the mode herein described of constructing lamp chimneys; that is to say, making the shaft in whole or in part of several pieces of flat glass, arranged as herein de-Digitized by GOOGLE

«ribed.

Also, the base constructed to receive the lower ends of flat plates of glass, for the purpuser above set forth.

Also, the metallic top, when the same is provided with a base or plate, adapted to reach or form a joint with the upper ends of flat plates of glass, and is designed to be used in cabination with such plates, in the manner and for the purposes herein set forth.

Second, a shield for the top of the shaft of a lamp chimney, for the purpose of prevenue.

the extinguishment of the flame by currents of air, as herein described.

No. 35,867.—HARRIS BOARDMAN, of Lancaster, Pa.—Improvement in Cork-Cutting N chines.—Patent dated July 15, 1862.—In this machine is employed a cylindrical cutter.:. edges of which are so formed as to constitute a series of lance-blade points instead of a -ucylindrical edge, by which the necessity of a rimmer or crown saw is obviated. The stock, with its long traverse pulley and bearings, is made in the form of a tube, into we the rod R enters, and is rendered adjustable by a set screw upon the top of the stan... This rod is fixed or stationary when adjusted, and expels the cork as the tool is rai-1 another cut. The tool holding the cutter pulley and bearings is affixed by brackets to a which slides up and down in grooves on the standard, and is drawn up by means of a trahaving a chain or rope over a pulley attached thereto.

Claim.—The combined arrangement of the cutter, as described, sliding tool, stock of the by a treadle, adjustable stop E, long traverse pulley P, and adjustable stationary :v. ..

substantially as and for the purposes herein specified.

No. 35,868.—JEAN RENNY BOUBILLA, of Paris, France.—Improvement in Seal Long! Mail Bags.—Patent dated July 15, 1862.—This lock is composed of a block of brass cross metal so constructed as to receive a cord and seal, and containing a griper, so that while plied to a mail bag or other package and properly secured, the said bag or package and be opened without either severing the cord or removing the seal, and thus any attention opening the bag may be detected upon its arrival at its destination.

Claim.—The seal lock, composed of the block A, with its passages a and b, seal cut.

and griper c c, substantially as herein specified.

No. 35,869.—NASON BURNHAM, of Norwalk, Ohio.—Improvement in Spring Balances -Patent dated July 15, 1862.—This invention consists in the use of a volute instead of a : ... cal spring, placed within a proper casing and provided with a graduated rod and disk.

Claim.—As a new article of manufacture, a spring balance, in which a volute spring the form represented in the drawings) is employed, substantially in the manner hands we forth.

No. 35,870.—JOHN W. CRANNELL, of Springport township, Michigan.—Improvement Axles for Vehicles.—Patent dated July 15, 1862.—This invention consists in providing 12 end of an ordinary wooden axletree with a cast shoe, at the outer extremity of which, a;" lygonally-shaped recess is formed to receive a finished metal axle, which is locked by s liarly formed nut and washer in such a manner as to be readily secured and adjusted all also, in connexion with the cap-nut, to effectually prevent the admission of grit to the size and serve as a constant means of lubrication.

Claim.—Connecting an iron axle with a wooden axletree by the use of the shank J. 1 collar I, in combination with the shoe B, lock-nut m, and washer O, substantially as at. 1

the purposes described.

No. 35,871.—George H. Dodge, of Camden, N. J.—Improved Steam Gauge.—I dated July 15, 1862.—This invention consists in the employment of two springs attack two arms, which are acted upon by the main spring. The two springs are so constructed applied to the spindle of the pointer as to serve both as a medium for transmitting the action of the pointer as to serve both as a medium for transmitting the action of the pointer as to serve both as a medium for transmitting the action of the pointer as to serve both as a medium for transmitting the action of the pointer as to serve both as a medium for transmitting the action of the pointer as to serve both as a medium for transmitting the action of the pointer as the poi obtained by the compression of the main spring to the pointer, and as a means of movin: pointer in a contrary direction, towards the zero point of the dial-plate, as the presumoved from the main spring, thereby dispensing with the usual independent spring superseding the use of cog-wheels and chains used in ordinary steam gauges. Attach the spindle of the pointer is a cam in combination with the aforesaid springs and arms --ranged that the dial-plate may be graduated by simple measurement instead of the proce-

ascertaining the proper points for marking the plate by a series of tests.

Claim.—First, the two springs H and H', attached to the arms B and B', or their clents, constructed, applied to the spindle of the pointer, and operating substantially as a

before described.

Second, the cam G, on the spindle of the pointer, in combination with the springs II i H' and the arms B and B', or their equivalents; the whole being arranged and view. as and for the purpose herein set forth.

No. 35,872.—W. H. Elliot, of Plattsburg, N. Y.—Improvement in Patched Cartra 2.4.

Patent dated July 15, 1862.—This cartridge is composed of a copper shell combined a ball formed in moulds and having a shoulder to receive the end of the cartridge shall. A the powder and fulminate have been placed in the shell, the ball, covered with a time

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patch, is placed in its mouth, and the copper of the shell closed tightly around both shot and bell.

Claim.—The combination, in one cartridge, of the shell, ball, patch, powder, and fulminator, as an article of manufacture and trade.

No. 35,873.—MICHAEL GALVIN, of Wilkesbarre, Pa.—Improvement in Iland-Tenoning Machines.—Patent dated July 15, 1862.—This machine is designed for cutting tenons on door rails and similar work. It is intended as an improvement upon a machine patented to the said Galvin, March 18, 1862, and consists in providing the device with a movable or adjustable bed, so arranged that the tenon may, by a single adjustment, be cut centrally on the stuff, or at a greater or less distance from either side of the centre as may be desired.

Claim.—The adjustable bottom i, arranged to be operated substantially as shown, when used in combination with the box A and plane C, all arranged as and for the purpose specified.

No. 35,874.—L. S. GRAVES, of Rochester, N. Y.—Improved Dies for Cutting Bevelled Soles for Boots and Shoes.—Patent dated July 15, 1862.—This invention will be understood

from the claim and engraving.

Claim.—The die A, having the edge of its walls bevelled on the inside at b, and having the cutting edge c outside the said bevel, so that the die will cut a bevelled sole on a plane sur-

face, substantially as herein set forth.

No. 35,875.—G. W. HARROLD, of Rochester, N. Y.—Improvement in Fountain Lamps.— Patent dated July 15, 1862.—This invention consists in attaching a globe of glass to a bracket or pipe, through which, burning fluid is made to pass from a reservoir placed in a position higher than the burner, so that by turning a cock a requisite amount of the fluid may always be kept in the globe, which amount the transparency of the globe admits of

being readily determined. Claim.—The induction of illuminating fluid into a transparent fountain lamp, substantially

as and for the purposes aforesaid.

No. 35,876.—JOHN HOENIGER, of New York, N. Y.—Improved Machine for Amalgamating Gold and Silver.—Patent dated July 15, 1862.—In a circular vessel is fitted, so as to be easily rotated, a block or disk, having a cavity in its upper side into which the ore to be separated is placed. Upon the under side of the rotating block or disk are placed projecting

Claim.—The herein-described machine for amalgamating and separating gold and other precious metals from their ores, consisting of the vessel A, the disk B, in combination with

the projecting plates a a, all substantially as set forth and described.

No. 35,877.—JOSEPH HURSH, of Philadelphia, Pa.—Improvement in Arranging Water Takes for Cooling the Breech of Ordnance.—Patent dated July 15, 1862.—Surrounding the rear of breech of the gun is a jacket, through the interior of which extend a series of straight tubes surrounding the breech. Through these tubes cold water is passed for the purpose of cooling the gun during rapid firing. At the front end of the jacket is a ring which surrounds the barrel, and forms an annular chamber with which the tubes are connected at their front ends. A ring made hollow on its inside is fitted to the rear of the jacket, and forms a chamber with which the rear ends of the pipes communicate. Within one of the cooling tubes is arranged a sighting tube, leaving a sufficient space for a current of water. The use of cool-Eg tubes in themselves is disclaimed.

Claim.—Constructing the barrel with a series of straight tubes, arranged substantially as described, in relation to the barrel and to the jacket which is cast around it, the tubes being

connected with the chambers E and G, or their equivalents.

Also, arranging the sighting tube J in one of the cooling tubes, substantially as described ill for the purpose set forth.

No. 35,878.—HENRY KELLOGG, of New Haven, Conn.—Improvement in Metallic Car-indges.—Patent dated July 15, 1862.—This invention consists in the construction of a water-Poof metallic cartridge, having a projection in the rear so formed from or forming a part of the cattridge case that, when removed by cutting or otherwise, either at or before the instant of discharge, it shall leave an opening through which may pass the flame from a detonating drice independent of the cartridge, to cause an explosion of the powder within the cartridge the object being to preserve the powder from the atmosphere and the deleterious effects of the fulminate commonly used within the case.

Constructing a water-proof metallic cartridge, having the ball, powder, and case rabined, without fulminate or percussion powder, as herein described, by making in the said or closed end, and of one and the same piece of the cartridge case, a projecting nipple, said nipple to be removed by cutting it away at or before the instant of discharge, in the namer and for the purpose substantially as herein set forth.

No. 35,879.—H. J. LOMBAERT, of Philadelphia, Pa.—Improved Mode of Constructing and Applying Rails to Railroads.—Patent dated July 15, 1862.—This invention consists in making the rail, which is similar in shape to the ordinary single bar rail, in two separations parts, termed by the inventor "the wearing and the supporting rail," and connecting the together by means of intermediate blocks or plates in combination with clamping house arranged and secured at equal distances apart from each other and in certain relation to the position of the cross-ties, to which the rails are secured.

Claim.—First, a compound rail for railroads consisting of the two parts A and B, the intermediating blocks or plates C, and the clamping hooks D D', the same being arranged tail combined together in relation to each other and to the positions of the supporting cross and or ground sills, substantially as described and set forth for the purposes specified.

Second, securing the joint which occurs at the abutting or contiguous ends of the wire rails A by means of an intermediating plate C2, arranged midway between the algorithms ties or ground sills and directly beneath the said joint, the said plate being means of the said pl clamped between the rail B and the ends of the rails A, all substantially in the EALLS! described and set forth.

Third, making the supporting rail B to have the nearly vertical planes 55 55 along a recessed sides, and the bevelled edges b2 b2 projecting therefrom, substantially as devised

and set forth for the purposes specified.

Fourth, making the said supporting rail B to have the central series of both holes in arranged at the equal distances apart described and set forth, for the purpose specified.

Fifth, making the said supporting rail B to have the series of protuberances t', or the equivalents, arranged at the equal distances apart described, and also in the relation to the relat bolt holes b3 described, for the purposes specified.

No. 35,880.—A. J. Low, of German Township, Pa.—Improved Portable Apparatus." Evaporating Saccharine Juices .- Patent dated July 15, 1862 .- The evaporating divided into several compartments, in the front one of which is an inclined plane connected its upper part with a trough extending the width of the pan. From the lower end of 🖂 trough, where it is covered with a strainer, a pipe leads into the front compartment or recent The tongue or draught pole is secured to a socket at the rear end of the furnace, and three the tongue and socket passes a screw, provided at its lower end with a swivel foot and a upper end with a screw, by means of which the rear end of the furnace may be reared. lowered and the inclination of the evaporating pan varied as may be desired.

Claim.—First, the receiver K, inclined plane J, in combination with the trough a still g, and pipe f, when arranged to operate in the manner and for the purpose set forth. Second, the screw F, winch H, and swivelled foot G, in combination with the evaporation

pan I and wheels B B, when arranged to operate in the manner specified.

No. 35,881.—MICHAEL MADDEN, of St. Louis, Mo.—Improvement in Retainers for his draulic Presses.—Patent dated July 15, 1862.—This machine is designed for retaining when or other substance, which has been pressed under a hydraulic or other press, in the posto which it has been forced, by means of toggle rods, which connect the base with the resising plate and are operated by a right and left acrew. The upper ends of the toggle role joined to keys which pass through corresponding holes in the retaining plate in which is are adjusted, as required, by means of pins.

Claim.—The toggle rods C C, when the same are used in combination with the more top B and movable keys F F, as set forth in the specification and shown in the drawing

No. 35,882.—G. T. May, of Tompkinsville, N. Y.—Improved Masts and Riggit-Patent dated July 15, 1862.—This invention is designed as an improvement upon the state. of masts and rigging patented to the said May on the 28th of April, 1857, and the inverse consists in substituting for the doubled upper masts and rigging of the original inventor.

consists in substituting for the doubled upper masts and rigging of the original inventor. single spar and a simplified arrangement of rigging and fittings thereto, the double had masts being retained and the substitute spar and rigging being adapted to them.

Claim.—The use, in combination with the lower mast a, the pivot mast b, the bridge who hounds and clamps c, and the lower rigging d and c, of the following-named specified party the upper mast f, the top-mast forward stays g, the top-mast back stays h, the top-breast rigging i, the forward out-riggers j j', the back out-riggers k k', the collar l, the lines D' D'' D''' D'''' D'''', the top-gallant forward stays m, the top-gallant back stays and the top-gallant breast shrouds o', substantially as described and for the purpose set k'.

Also, inc ombination with the above, the gast top-sailjack stay s, the bull's eye D. is guess rope F F, the thimble M, the lanyards I, and the rings J, substantially as and for its purpose set forth.

purpose set forth.

Also, in combination with all the above, the mast rope p, the mast downhaul q, and :step r, substantially as and for the purpose specified.

No. 35,883.-W. H. McNary, of Brooklyn, N. Y.-Improvement in Converting Matter-Patent dated July 15, 1862.—This invention consists in certain means applied in combine : with a driving shaft rotating continuously in one direction, whereby the said shaft may it made to impart rotary motion to machinery either in one direction or the other, and to render

the direction automatically at such intervals of time, however irregular, as may be desired

Claim.—The employment, in combination with a switch wheel, or other equivalent device arried by a driving shaft, of a gear B and toothed wheel I, the said gear carrying pins G G, ontrolled by springs, and the said toothed wheel being furnished with wedges s s, or other aclined surfaces of similar character, and the said gear and toothed wheel being connected y a pinion J, or its equivalent, actuated by a fixed tooth t, the whole combined and applied t0 operate upon the reversing lever t1, or other device for reversing the motion, substantially t2 herein specified.

No. 35,884.—James Milholland, of Reading, Pa.—Improvement in Apparatus for Casting Ordnance.—Patent dated July 15, 1862.—In the inside of the hub of a bevel wheel, thich has its bearings in a central opening in the cross piece attached to a cylindrical casing, re cut four or any convenient number of vertical slots or recesses for the reception of a like number of keys or feathers on the upper end of the tapering tube D, so that while the latter evolves with the wheel it can have a limited vertical movement. The lower end of the tube is provided with a flange secured to a flange in the hollow base, which forms a continuation of the tube, the lower end of the hollow base having a flange secured to a plate, from the moder side of which projects a journal adapted to a step secured to the bottom of the cylinnical casing.

rical casing.

Claim.—First, so constructing the upper end of the tube D, in respect to the gearing for riving the same, that the said tube can expand and contract without any interruption of its

otary movement.

Second, combining the aforesaid tube D and its hollow base with the water-tight casing A, ubstantially as and for the purpose herein set forth.

No. 35,885.—G. H. MILLS and J. M. HANSCOM, of Boston, Mass.—Improvement in Hamsers.—Patent dated July 15, 1862.—The hammer is provided at one side with a taper socket r groove, so arranged as to hold a nail and admit of the sticking of the same into the wood reparatory to driving it, and the ready detachment of the hammer from the nail when struck, he object being to obviate the necessity of holding the nail with the fingers while the nail is eing struck.

Claim.—A hammer provided with a taper groove C at its side, to receive and hold a nail or the purpose of sticking the same, without the aid of the fingers, preparatory to driving it,

s herein set forth.

No. 35,886.—E. R. MORRISON, of New York, N. Y.—Improvement in Automatic Apparatus for Walking Figures.—Patent dated July 15, 1862.—In this device the power to be applied the stepping movements is transmitted through the aid of a pinion wheel and shaft D, on he ends of which, outside of the bearings, are two eccentric cams, having fitted upon them teach side of the figure, the walking mechanism, consisting of the leg and foot and two ertical oscillating levers B C, having at the knee or hip-joint round holes in which the cams it so as to turn freely, one cam partly lapping over the other so that by the motion of the upporting slide lever C and vertical walking lever B, to which the leg and foot are attached, bey are caused to alternately change their position. The foot has a slight oscillating motion, roduced by the action of an eccentric pin in one of the cams which works in a slit at the joint.

Claim.—First, the double eccentric cam joints c e, in combination with the levers B C, rhich give alternate reciprocating movements to the pedal extremities for walking figures,

a the manner as and for the purposes specified.

Second, the automatic stepping movement, consisting of the shaft D, the cams c e, pin i, ertical levers B C, and foot A, in combination with clockwork, substantially as and for the surpose herein described.

No. 35,887.—M. D. MYERS, of Ilion, N. Y.—Improvement in Hay Elevators.—Patent lated July 15, 1862.—This invention consists in so arranging the tripping cord and belt within the tongue, and in relation to the head of the elevator, as to prevent the bolt from being accidentally drawn by contact with the hay mow or beams of the barn as it is dragged along. In order to prevent injury to the cord as it passes from the head, and to facilitate its action upon the bolt, use is made of pulleys and a guide placed within the lower part of the head.

Claim.—First, arranging the tripping cord and bolt in relation to the tongue and head, as

ind for the purpose herein set forth.

Second, the employment of pulleys i, in combination with cord f, when the cord passes brough a head which turns upon its axis when the hay is discharged, as and for the purpose pecified.

No. 35,888.—GEORGE PALMER, of Littlestown, Pa.—Improvement in Pumps.—Patent dated July 15, 1862.—This pump is constructed with its cavities in the upper part and the section lown to the valves, considerably larger than that of the tube or bore below. To the plunger E is attached a wooden float or buoy which acts as a counterbalance to the plunger. Upon he top of the piston rod is a link or toggle joint by which it is connected to the pump handle, he latter having a series of holes in it in which a pin is fitted so as to admit of the length of the stroke of the piston being varied. Under the axle of the handle is placed a spring or bumper so as to cause the handle to react after its downward movement.

Claim.—The internal arrangement, consisting of the enlarged cavities or water space above the valves, in combination with the buoy or float H acting upon the plunger E, the statistical cap valve x y z, the adjustable toggle joint m, connecting with the pump handle L and the bumper r, all constructed and arranged substantially in the manner herein specified.

No. 35,889.—W. R. Peavey and H. M. Peavey, of Swanville, Maine.—Improvement of Hay Press.—Patent dated July 15, 1862.—The novelty of this invention consists in the state of t

arrangement and combination of parts designated in the claim.

Claim.—The arrangement and combination of the windlass G, the two leading ropes F? the two scroll wheels E E', their shafts D D', the grooved cone pulleys C C C' C', and the platen-supporting ropes b b b b, as set forth, the whole being for the purpose of operating the platen, as explained.

Also, combining the windless with the press box, by means of the foot strut and the

braces, arranged as specified.

No. 35,890.—S. T. W. POTTER, of Scott, N. Y.—Improved Subsoil Plough.—Patent is:
July 15, 1862.—This invention consists in constructing the mould-board of the plough is to
form of a curved inclined plane with a vertical ledge or guard at its landside edge, where
the plough, as it is drawn along in the furrow previously made by the surface plough to
take up the subsoil and deposit it on the furrow slice turned by the surface plough, as it
the field when ploughed will have the subsoil brought to the surface for subsequent the state of the surface plough.

Claim.—The inclined curved mould-board and share, provided with the ledge or g

arranged substantially as and for the purpose herein shown and described.

No. 35,891.—George Race, of Norwich, N. Y.—Improvement in Water Elevator—Patent dated July 15, 1862.—This invention consists in the employment of a ratchet place loosely on the windlass shaft, in connexion with a wheel permanently attached to the values shaft, and enclosed within a barrel attached to the ratchet; the said wheel being better by a friction band or clutch so arranged as to be operated at pleasure, by means of a rate of lover to which the handle is attached through a cogged wheel and pinion, whereby the interpretation of the same time or suddenly stepping under the perfect control of the operator.

Claim.—First, a hollow crank having a ratchet wheel permanently attached there is

described.

Second, the loose friction band or clutch having projections and stops, substantially

forth and operated by means of a ratchet lever.

Third, the ratchet lever, constructed as described and operated by means of the pin or its equivalent, and arranged with reference to the spring D and thumb-screw?

No. 35,892.—B. H. REECE, of Marion, Iowa.—Improvement in Bechives.—Paterially 15, 1862.—The movable frames which hold, the comb are loosely dovetailed into the piece at the upper part of the hive so as to be readily removed. At the bottom of the ris a funnel-shaped moth slide made of metal and perforated to admit of the circulation. It is upper end penetrates a hole made for its admission, and it may be raised upon repassing through its centre to exclude the moth or lowered to admit the bec.

Claim.—First, supporting or hanging the movable frames a a a by means of dovernorder that they may be easily and expeditiously removed without irritating the bees, said

tially in the manner set forth.

Second, the moth slide d, when employed in conjunction with frames a a and a reglass door b, the whole being constructed and arranged in the manner and for the parameters.

No. 35,893.—E. B. Requa, of Jersey City, N. J.—Improvement in Lamp Burners.—[3,4] dated July 15, 1862.—The wick tube is made flat and straight at its upper part, its repart being bent and made in a semicircular form in its horizontal section, by which a subject wick than usual can be used in a tube of a given size and a proportionately staffame obtained.

The wick is raised and lowered by means of a shaft upon the crank of which is fitted. A having a fork upon its upper end composed of two or more tines, which pass through the wick tube, and are pressed into the wick by a spring.

Claim.—First, bending or curving the lower part of the wick tube B in semicirculated

in its horizontal section, as and for the purpose set forth.

Second, operating or raising and lowering the wick k, through the medium of the shaft E, fork G, and rod F, provided with the spring l, substantially as described.

No. 35,894.—James Richmond, of Lockport, N. Y.—Improvement in Machines for Proving Millstones.—Patent dated July 15, 1862.—This invention consists in the employed of a guide bed, in connexion with an adjustable stock or holder of the diamond used in considered down the inequalities of the millstone, in such a manner that the diamond may be considered all times to cut truly on the stone. In connexion with the guide bed is a platform providing the latter to adapt itself perfectly to the surface which is being dressed.

Claim.—The guide bed B, with plane parallel surfaces hh, and provided with a slot L, in embination with the adjustable diamond shank M and its slide N, arranged and operating

ubstantially as and for the purpose herein described.

Also, the guide bed B, connected with the stationary platform A by means of the screw C, sits equivalent, operated by means of the nut E and lever I, provided with a pawl b, or heir equivalents, and gauged by means of the adjustable pins d d, arranged and operating ubstantially as and for the purposes herein set forth.

No. 35,895.—WILLIAM RUMBOLD, of St. Louis, Mo.—Improved Construction of the Defensive Armor of Ships.—Patent dated July 15, 1862.—In the construction of this device a number of wrought-iron beams, A, having flanges on both sides and curved to the contour of he desired structure, are placed vertically upon a circular base, in close proximity to each ther but not in contact. Between these beams are placed other wrought-iron beams, C, which are curved and shaped to correspond with the flanged portions of the beams A. The upper and lower ends of the two sets of beams abut against circular frames, and they are tied together y means of cylindrical bands, E, placed around the skeleton dome, which, as thus constructed, supported and held together without the aid of through bolts.

Claim.—First, so forming and arranging relatively to one another metal beams, A C, that beforce of a cannon ball or other force is transmitted in an indirect line from the point of

watact, substantially in manner and for the purpose set forth.

Second, The combination of the beams A C and tie bands E E, the whole constructed and applied together, substantially in the manner and for the purpose described.

No. 35.896.—G. S. Rust, of Chester, Ill.—Improvement in Expressing the Juice of Apples, Gropes, &c..—Patent dated July 15, 1862.—This invention consists in the employment of a oller composed of strong solid heads and wire gauze or perforated metal covering. Between he head, at suitable distances apart, are placed bars so as to form an open or grated cylinder, and the wire gauze is fitted closely around the circle of bars, by which means a hollow permand expressing roller is formed, to be used instead of the usual solid cylinder, and the pomace. &c., thereby separated from the juice, during the expressing operation.

Claim.—Expressing and separating juices, oils and fluids, from the substances which contain the same, by employing in an organization, substantially as described, a pressing plinder whose periphery is perforated or constructed of open work, and whose body is holow, substantially as and for the purposes set forth.

No. 35,897.—J. P. SCHENKL, of Boston, Mass.—Improvement in Time and Concussion fuzzs for Shells.—Patent dated July 15, 1862.—This invention is designed not only to comand a percussion apparatus with a time fuze, but with a mechanism by which the period of ranging of the fuze may be regulated or adjusted as circumstances may require. The nature if the invention will be understood from the claim.

Claim.—A rotary fuze having its covering or case, whether made of paper or other suitable material, provided with a series of holes so arranged that each, by a suitable movement of the nze case, may be brought into conjunction with some one of another series of holes made in he fuze plug; the requisite motion of the fuze within its plug being affected by a fuze rotator, and the fuze being provided with an igniting apparatus, all substantially as specified.

Also, the combination of the wrench pin E with the percussion striker, the rotator and its

Also, the combination of one or more vent holes o o and a closing annulus m, or its equivtent, with the rotary fuze holder and fuze when combined with the rotator and a percussion

apparatus, substantially as described.

Also, the arrangement of the perforations in the rotary fuze and its holder, viz., in two tem:helices or parts of helices pitched in opposite directions in the fuze and its holder, sub-Hantially as explained.

 Λ_{∞} , a rotary fuze and its holder, made with perforations r s arranged as described, and the with a scale and index so applied as to enable the fuze to be adjusted so as to bring any one of its holes of its range s to open into a hole of the range r of the fuze holder.

Also, the combination of the latching apparatus u and the series of recesses t t with the sale of the holder B, when said holder is combined with a rotary fuze, and both are protiked with ranges of holes, as specified.

No. 35,898.—J. R. and J. A. SHEPPARD, of Waukegan, Ill.—Improved Window Clothes Dryer.—Patent dated July 15, 1862.—This invention consists in the employment of a revolvin real suspended from a slide that rests upon a V-shaped support extending horizontally from the window, the reel being so arranged that its arms can be turned one upon the other when the reel is not used, and by turning them in a position at right angles to each other they will become locked and retained in their position.

Claim.—First, the employment or use of a revolving clothes dryer or recl B, when the same is secured to a window C, substantially in the manner and for the purpose shown and

second, the arrangement of the V-shaped support A and looped wire d in combination with the reel B, as and for the purpose specified.

Third, the sliding carriage D, in combination with the support A and reel B, constructed and operating substantially as shown and described.

Fourth, the latch j, arranged in combination with the slotted plate i, raised part j', and pivot g', of the rack B, substantially in the manner and for the purpose set forth.

No. 35,899.—DARIUS SKIDMORE, of Seneca Falls, N. Y.—Improved Mode of Fastesing Dow Knobs to their Spindles.—Patent dated July 15, 1862.—This invention consists in securing the shank and spindle of a door knob together, by providing the cylindrical shank with a closely fitting sleeve, having on its inner end a rose or flange forming a part of it, and secured to the door by screws. This sleeve has a hole on the same plane in cross section with thole in which the coupling pin fits, and the pin being placed in the hole, the sleeve is turned on the shank and covers the pin, thus preventing it from being in any way accidentally detached. detached.

Claim.—The sleeve D, provided with a hole d, either forming a part of or detached from the rose E, when the same is used in connexion with the shank B, for holding the coupling pa in place, arranged substantially as herein described.

No. 35,900.—J. J. Speed, of Gorham, Maine, and F. B. Smith, of Brooklyn, N.Y.-Improvement in Treating Ardent Spirits.—Patent dated July 15, 1862.—The apparatus used in carrying out this invention consists in the combination of a steam engine, or other power. an air pump, a tight vat or cask to contain the liquor to be rectified, and three or more like vats or casks of smaller size to contain water, together with a series of tubes to conduct the air from one to the other, until it escapes from the last of the series into the open atmosphere.

Claim.—The use and forcing of atmospheric air, hot or cold, into and through ardent spirits; also, in combination with said process, the arresting in water, and saving for use, the alcohol which combines with the air, in the manner and by the combination of apparatus substantially as described above.

No. 35,901.—J. W. STREET, of Salem, Ohio.—Improvement in Harvesters.—Patent dated July 15, 1862. - Upon each end of the main shaft is a box, one or both of which may be provided with pivoted pawls, which, when motion is to be communicated to the cutting apparatus, are held in or out of gear with ratchet teeth on the face of the wheel hub by means of an clastic lever fulcrumed upon the shaft, and arranged to bear against either end of the paw's as desired, by which means motion is communicated to the shaft to operate the cutting apparatus. Upon the shaft C is keyed a gear wheel which meshes with a pinion G, secured upon a sleeve that turns upon a secondary shaft H, journalled transversely in the forward part of the main frame. To the shaft H is attached a drag frame. The finger bar is secured by a horizontal transversely in the shaft H is attached a drag frame. zontal hinge to a plate which is attached by a diagonal hinge to the outer face of a flange projecting downward from the outer rear corner of the drag frame.

Claim.—First, the lever E, elastic or otherwise, fulcrumed upon the shaft C, and projecting on each side of the box D, for the purpose of throwing the pawls d d in and out of gest,

substantially as explained.

Second, mounting the two independently and separately cast intermediate gear wheels 6 and G' upon a common sleeve g, which sleeve is journalled upon the shaft H, which hings the drag frame to the main frame A. Third, the drag frame I I' I" J J', constructed and employed in the manner and for the

purposes described.

Fourth, attaching the finger bar by a diagonal hinge l', on either a perpendicular or herizontal side of the drag frame, shoe or finger bar, with or without the horizontal hinge l, to admit of folding the bar for transportation, substantially as described.

No. 35,902.—B. F. STURTEVANT, of Boston, Mass.—Improved Preparation of Shoe Pegs.—Patent dated July 15, 1862.—This invention consists in the use of one or more bands or strips of paper or its equivalent, and a series of shoe nails, or pegs, arranged in close proximity. edge to edge, and cemented on one or the two opposite sides of each peg to the said strips, by which means a flexible joint is obtained that can be easily broken when necessary.

Claim.—As a new manufacture, shoe nails or pegs and paper, or its equivalent, arranged and combined, substantially in manner and for the purpose as set forth.

No. 35,903 —P. C. VAN BROCKLIN, of Buffalo, N. Y.—Improvement in Converting Retarn into Reciprocating Motion.—Patent dated July 15, 1862.—This invention consists in a methol of converting rotary into reciprocating motion, by the use of two toothed wheels revolving in opposite directions, and acting directly upon the part to be moved, without the intervention of a connecting rod or levers. In connexion with the toothed wheels is a spring which serves

to react upon the projectile force of the reciprocating body at each extremity of its movement.

Claim.—First, the toothed wheels A and B, so arranged as to revolve in opposite directions. and act directly upon the part to be reciprocated, without the intermediate use of connecting rod or levers, substantially as herein set forth.

Second, the combination of the spring K with said toothed wheels and reciprocating bar, for the purposes and substantially as described. Digitized by Google

No. 35,904.—Thomas Varney, of San Francisco, Cal.—Improved Amalgamatory Machine for Gold and Silver.—Patent dated July 15, 1862.—This apparatus is composed of a stationary cast-iron plate A, provided with fadial recesses or grooves on its under side and fitted securely within a circular pan. Resting upon the plate A is another cast-iron plate C fitted upon a vertical arbor, and having a tube at its centre, which is encompassed by a concentric flanch; the face side of the plate C is provided with grooves or recesses. Upon a flanch at the upper edge of the pan is a cap H formed of a circular plate, and provided with an annular flanch projecting downwards within the flanch of the revolving plate C. The cap H is also provided with a feed spout and discharge spout communicating with the space within the flanch upon the revolving plate.

Claim.—The two plates A C, fitted in the pan or chamber B, provided respectively with grooves a d, and used in connexion with the cap H, provided with the feed and discharge spouts I J and flanch f, all arranged to operate with ore pulp under pressure, substantially

as and for the purpose set forth.

No. 35,905.—G. W. WALKER, of Boston, Mass.—Improvement in Cooking Stores.-Patent dated July 15, 1862.—In this range the fire-box is suspended within the oven and extends transversely across the same. The oven extends underneath and on both sides of the fire-box, and is provided with one or more register plates extending horizontally between the sides of the oven and the fire-box for the purpose of regulating the heat and equalizing the same upon the upper and under surface of the articles to be cooked. An induction pipe M serves to convey the heated air from a hot-air chamber, which is arranged under the bot-tom flues of the oven to the upper part of the same. Near the lower part of the oven is arranged the mouth of a flue, for the purpose of creating a draught and drawing away the less heated air of the oven.

Claim.—My improved range or stove, having its fire-box B, its oven I I, flue R, hot-air chamber N, induction flue M, eduction flue O, and register L, constructed and arranged in

relation to each other, and to operate in manner as set forth.

Also, the flue R, as made to extend around the top, the bottom, and the two ends of the oven, and also a portion S of the rear part thereof, the same being as and for the purpose specified.

Also, the application or arrangement of a register or register-plate L to one or both spaces between the fire-box and the flue R, in manner and for the purpose set forth.

No. 35,906.—J. M. WHITING, of Providence, R. I.—Improvement in Machines for Shaving and Nicking the Heads of Wood Screws.—Patent dated July 15, 1862.—This invention is esigned to operate upon two blanks at once, and to that end the machine is provided with we spindles for revolving the said blanks, and with two sets of machinery for performing the successive operation upon the blanks, (one to each spindle,) the mode of operation admixing, the inventor says, of two spindles being employed conjointly, with greater economy many respects than singly and independently of each other. Reference to the description and drawings will be necessary for an understanding of the construction and operation of Le invention.

Claim.—First, the combination and arrangement of the sliding sleeves S S, the toggle-

Second, the sliding bars h h, in combination with the fixed posts 4 4, for operating the

Kirk rests e e, substantially as specified.

Third, the employment of the toggle joint sss, for the twofold purpose of operating the we back rests e.e., which support the blanks therein while being operated upon, substantially is specified.

Fourth, the combination and arrangement of the toggle joint y y, the plunger x, the form x, and the spring P4, substantially as described for the purpose specified. Fifth the combination and arrangement of the friction clutch D2, the pulley H2, the

ting levers N, and the spindles A A, with a suitable belt or band for communicating to the said spindle, the same operating substantially as described for the purpose er ned.

Sixth, the combination and arrangement of the pin x2, the lever x2, the sliding piston mud by the spring P2, and their connexions, the latch t, the catch z1, and the fixed post is for inserting the blank in the jaws of the nippers simultaneously with its arrival in the roper position to be received by said jaws, substantially as specified, and in combination remit the finger V2 and the stud d3, upon the sliding piston, for the purpose of placing pin r2 in the proper position to operate upon the succeeding blank, substantially as

Sweath, the combination and arrangement of the railway F', constructed and arranged as inited, the revolving cylinder k', the flat springs m2 m2, and the barrel a2, for the pur-** specified, in connexion with a suitable device for inserting the blanks in the jaws of the

[[47], substantially as specified. Lighth, the tumbler R2, arranged and operating in connexion with the railway F', sub-

as specified.

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No. 35,907.—RICHARD YEILDING, of Ypsilanti, Mich.—Improvement in Corn Hartesters.—Patent dated July 15, 1862.—This machine is designed for harvesting standing corn and is positing the same on the ground in gavels of suitable size in rows parallel with each oite, so as to be convenient for removal into a wagon. As the machine is moved along between the rows, sliding bars E on each side of the machine are thrust forward by their actualing mechanism, and a pivoted arm coming in contact with the stalk, and being resisted the row, shuts until the bar is passed far enough in advance to allow it to slip behind the stalk, with a troomences to move in the opposite direction, and by means of a curved arm drawing is top of the stalk between the pivoted bars on the inner side, sufficiently to allow them to apply they open and hold the stalk from being pushed forward by the action of the knive a cutting. After being clipped off the stalk falls over backward into the rack upon is sliding bars, where they remain until a sufficient quantity has been gathered to toma suitably sized gavel, when, by a movement of the lever in one direction, the sliding bar is moved inward and the gavel is allowed to fall to the ground.

moved inward and the gavel is allowed to fall to the ground.

Claim.—The combination of the reciprocating sliding bars E, and pivoted arms X, x 2

the pivoted arms W, and rotating knives J K, arranged to operate in the manner and for its

purpose set forth.

Second, the sliding bars A A', pinions io, rack C, pitman w, and hand lever D, with combined and arranged to operate in the manner and for the purpose set forth.

No. 35,908.—ALEXANDER DOUGLAS, of English Neighborhood, N. J., assignor to Himmand S. S. Sherwood, of Acquackanonck, N. J.—Improvement in Store Trucks.—Particulated July 15, 1862.—This invention consists in the combination of a toothed wheel upt the inside of and forming a part of each wheel of the truck, and a bar or pawl runner through the body of the truck and reaching far enough over the face of the toothed wheels mesh into them, when it is pressed down by the foot and the wheels thus effectually blocked. The pawl is held back by a spring when not in use.

Claim.—The combination with the store truck of the break bars 7, or its equivalent, y

Claim.—The combination with the store truck of the break bars 7, or its equivalent of which the rotation of the wheels is prevented at the time of loading the truck, when the store break bar is so arranged in relation to the other parts of the truck as to be easily access.

to the foot of the operator, substantially as herein set forth.

No. 35,909.—J. H. Garel, of Philadelphia, Pa., assignor to Himself and J. B. Thorper of the same place.—Improvement in City Railway Tracks.—Patent dated July 15, 182—The upper surface of the rails is formed of two longitudinal planes, one being horizon. It nearly so, and the other slightly inclined, so as to form an obtuse angle with each other their transverse section. The car wheels are without flanges, and their treads are ward correspond with the surface of the rails, which latter are laid on a level with the surface.

Claim.—The combination of the rails A with the wheels B, when constructed respectively with planes a b, and treads formed of two surfaces c d, substantially as and for the put

herein set forth.

No. 35,910.—S. P. Rowell, of Melrose, Mass., assignor to Himself and A. Chipman of Boston, Mass.—Improved Clothes Wringer.—Patent dated July 15, 1862.—This inverse relates to a means of adjusting the spring or pressure bar of the upper or yielding related and consists in providing the lower end of the operating lever with three sides, each at the ferent distances from the fulcrum pin, so that either side can be brought to bear at place upon the pressure bar. The rollers are formed by placing four segmental pieces of weel a longitudinal spaces upon the metal shafts, as shown in the engraving. These segments are covered by cloth properly secured, and the whole is encompassed by an India-rubber are secured by cement, the object being to prevent the India-rubber from turning on the shaft.

Claim.—First, the cam F provided with a plurality of sides 1, 2, and 3, at different the contract of the large of the

Claim.—First, the cam F provided with a plurality of sides 1, 2, and 3, at different tances from the fulcrum pin d of the lever G, to which the cam is detached, in combination with the bar D and pressure rollers B B', and with or without the spring E, all arranged in

joint operation as and for the purpose herein set forth.

Second, constructing the rollers B B' of wooden segments g, applied to the shaft covered with cloth h, secured by the bands i, and covered with the rubber tube H, substitutely as described.

No. 35,911.—G. P. Towle, of Boston, Mass., assignor to Himself and R. H. Spanking of the same place.—Improved Clothes Wringer.—Patent dated July 15, 1862.—In the upper of the posts which sustain the roller shafts, are bored holes extending from the top the journals of the upper roll. Within these holes and resting upon the journals of the ware pins which support a wooden spring on their upper ends. This spring is actuated by a cam lever, by which the degree of pressure upon the upper roll is readily adjusted.

Claim.—The arrangement and combination in a clothes wringer or presser, as shown a described, of the yielding surface roll c, the bearing pins c, the wooden spring f, the link

and the cam lever g, all operating together as set forth.



No. 35.912.—Lucius Woodruff, of New Britain, Mass., assignor to the Russell & Erwin Manufacturing Company, of the same place.—Improvement in Locks.—Patent dated July 15, 1862.—This invention relates to that class of locks which are provided with reversible latch or catch bolts to admit of the lock being applied to a right or left hand door without the necessity of its being inverted. The back part of the latch or catch bolt is prorided with two arms, which are parallel with each other, but in different planes, and the mob arbor is provided with two projections or lugs corresponding with the position of the rms on the latch or catch bolt, the ends of the arms of the latter having projections for the use of the arbor hub to act against, whereby the latch or catch bolt, and also the hub, may reversed in position within the lock so as to adjust the position of the bevel of the latch or ratch bolt to suit the door.

Claim.—The parallel arms e' e' of the latch or catch bolt C placed out of line with each ther or in different planes, in combination with the lugs h h of the hub D also placed out of ine with each other or in different planes, and arranged relatively with the arms e' e' and projections g g thereof to admit of the reversing of the latch or catch bolt C in the case A,

or the purpose specified.

No. 35,913.—J. A. HOTCHKISS, of Pleasant Township, Ind.—Improvement in Hay and Cotton Press, &c.—Patent dated July 15, 1862.—The nature of this invention will be inderstood by reference to the claim and engraving.

Claim. —First, the combination of the bar L passing through slots or their equivalents in he end of the chest with the levers G G and arms H H, operating the ram or follower F, substantially as described.

Second, actuating the levers G G by the shaft I through the instrumentality of the roller

K K', substantially in the manner set forth.

Third, actuating the follower F as a ram or pounder by means of the shaft I and drum C, mbstantially as and for the purpose set forth.

No. 35,914.—James Armstrong, Jr., of Elmira, Ill.—Improvement in Corn Planters.-Patent dated July 22, 1962.—This invention consists in the arrangement of an oscillating raive working under a double-channelled tube and between the openings of said tube, and a tationary platform, in such a manner that by means of the said valve, the seed dropping lown through one branch of the twin tube is retained on the platform, while, at the same ime, the seed deposited upon the said platform, through the other branch of the twin tube, is wept off and deposited in the furrow. In combination with inclined cutters are hinged adustable runners and shoes, which serve to open the furrows in such a manner that the depth if the furrows can be regulated at pleasure.

Claim.—First, the arrangement of the oscillating valve H', and platform n, in combination with the two channels m of the discharge tube G, and with the seed-distributing mechanism,

constructed and operating as and for the purpose shown and described.

Second, the arrangement of the hinged, adjustable runners H, secondary frame D, and lever , in combination with the cutters I and shoes I', constructed and operating as and for the surpose specified.

No. 35,915.—J. K. BAER, of Highland, Ill.—Improvement in the Manufacture of Domestic Times.—Patent dated July 22, 1862.—This invention consists in the employment of honey lissolved in pure water and introduced into the juice which is to be converted into wine as ferment, or in augmentation of the fermentable and fermenting substances, for the purpose f producing a large quantity of wine from the juice of grapes, berries, fruits, or vegetable

Claim.—The within described process of manufacturing wine by treating the diluted juice of vegetable substances, such as specified, with honey, substantially in the manner set forth.

No. 35,916.—H. H. BEACH, of Philadelphia, Pa.—Improved Device for Spreading Grain.—Patent dated July 22, 1862.—This invention consists in spreading the grain by causing it to east from a primary channel or receiver, down a series of inclined radial channels, increasing n width from the said receiver to the end of the channels; the bottom of each chamber being nclined outwardly from the inner edges so as to prevent the grain from crowding into the nner corners, and to cause it to be spread evenly throughout the width of each channel.

Claim.—Spreading grain by causing it to pass from a primary channel or receiver down a prices of radial inclined channels, increasing in width from the primary channel to the point where the series of channels terminate, when the bottom of each channel is formed in the nanner described for the purpose specified.

No. 35,917.—G. P. BERTRAND, of Easton, Pa.—Improved Mirror for Attachment to a Findow, &c.—Patent dated July 22, 1862.—The mirror is suspended by means of a loop from projecting rod, which is provided with an arm fitting the said loop so that the mirror can usely be removed. The inner end of the rod forms a plug fitting in a socket, and by means of nuts and stops, the mirror is allowed a horizontal and vertical movement, and prevented rom slipping off the rod. .

Claim.—A revolving mirror A, hung upon a rod B, with plugs c d, nuts f j, and stops i, as and for the purpose shown and described.

No. 35,918.—Samuel Boorn, of Lowell, Mass.—Improvement in Looms.—Patent dated July 22, 1862.—Within the body of a metallic case is formed a socket for the reception of an elastic cushion. The case is provided with a wide notch or recess for the purpose of allowing the cushion to expand laterally and preventing injury to the neck of the picker. Through the rear part of the case are two rectangular slots for the reception, respectively, of the two end portions of a band or strap for securing together and in place the component parts of the cushion.

Claim.—My improved loom picker cushion case as made with a notch or recess b, arranged with reference to its cushion, and for reception of the picker or picker staff, in manner and

for the purpose substantially as specified.

Also, the cushion case, as provided, or made with the loop slots extending through its batom or rear part and out of its cushion chamber, in manner and for the purpose as described

No. 35,919.—Gail Borden, Jr., of Amenia, N. Y.—Improvement in Concentrating at Preserving for use Cider and other Juices of Fruits.—Patent dated July 22, 1862.—The nature of this invention is explained by the claim.

Claim.—As a new article of manufacture or merchandise, the juice of apples, grapes, curants or any other fruits from which vinous liquors are or can be made, so concentrated that it will be unaffected by the influence of external heat and moisture until properly diluted.the same being placed in casks or other and suitable vessels to permit it to be readily handled a transported, substantially as hereinbefore contemplated and described.

Second, as a new article of manufacture or merchandise, sweet cider so concentrated that it will not be affected by external heat or moisture until properly diluted, the same being placed in casks or other suitable vessels to permit it to be readily handled and transported

substantially as hereinbefore described.

No. 35,920.-J. H. BRINTON, of West Chester, Pa.-Improvement in Hoppers of Machines for Sowing Grain, &c., Broadcast.—Patent dated July 22, 1862.—This invention consists in supporting and vibrating the distributing bar in and upon adjustable bearings underness the hopper, so that the contents of the latter shall not bear upon the vibrating bar, and so that the opening through the bottom of the hopper may be opened or closed as may be required for the particular kind of material that is to be dropped from it in regulated quantities there being spuds upon the bar that project up into the hopper to prevent the material therein from clogging or chocking the opening.

Claim.—In combination with the wedge-shaped opening through the hopper bottom, the wedge-shaped vibrating bar d, when said bar is supported upon adjusting devices below the hopper, and is furnished with spuds which extend up into the hopper, substantially in the

manner and for the purpose set forth.

No. 35,921.—A. R. Burdick, of Racine, Wis., and C. D. Read, of Elgin, Ill.—Improvement in Corn Harcesters.—Patent dated July 22, 1862.—This machine is designed for picking corn from the standing stalks and husking them at the same operation. And the invention consists in the employment of a screw in connexion with cutters and yielding segments applied to a guide frame; all arranged so as to be attached to a mounted frame or wagon, and perform the work as the latter is drawn along in proper relation to the rows of corn.

Claim.—The segments G' and cutters M, with or without the screw F, arranged to operate

substantially as and for the purpose herein set forth.

Also, in combination with the screw F, segments G and cutters M, the bars AABB frames C C, and bars E E, all arranged for joint operation as and for the purpose specified

No. 35,922.—F. A. CHAPELLE, of Paris, France.—Improvement in Tents.—Patent dated July 22, 1862.—This invention consists in the arrangement within a tent, of a hammock supended at one end from an upright in the centre, and supported at the other end by a metal rod secured to the upper edge of the knapsack, which is placed on the ground, by straps.

Claim. - The attachment to and combination with a tent of the character and general diposition herein referred to, of hammocks suspended in the manner and for the purposes herein set forth.

No. 35,923.—Daniel Clow, of Janesville, Wis.—Improvement in Harvesters.—Patent dated July 22, 1862.—In front of the driving wheel and between the cross-beams of the frame is a stirrup which is secured to the said beams, so that it can be easily tilted towards the rest or front of the machine as may be desired. Upon the upper surface of the base of the stimp is a hub or fulcrum, upon which is hung a pitman, having its rear end curved to pass by the side of the wheel, and on its inner edge is a recess or boxing into which a cross-head C is placed and permanently held by means of a key. Attached to the sides of the stirrup are springs extending forward so as to come in contact with the sides of the pitman at or near the end, for the purpose of easing the motion of the cross-head upon the cams on the under side

of the cross-head and regulating the motion of the machine.

—The adjustable hinged stirrup E, in combination with the pitman D, when constructed and arranged in relation to each other, as specified and for the purposes described

Also, the springs G G2, in combination with the said stirrup E, and the pitman D, when the several parts are constructed, arranged and operate in the manner and for the purpose

Also, the cross-head C, in combination with the said pitman and the main driving wheel A, when the several parts are constructed, arranged and operate in the manner and for the purposes specified.

No. 35,924.—G. N. Cummings, of Meriden, Conn.—Improved Mode of Attaching Door Knobs to their Spindles.—Patent dated July 22, 1862.—This invention consists in the arrangement of a sleeve with a square socket in combination with a screw-thread cut into one of the knobs and screwing upon the end of the rod which connects the two knobs, and with a square projection on the inner end of the shank of said knob corresponding with the square socket in the sleeve in such a manner that by means of the screw-thread in the knob and on the end of the connecting rod, the distance between the two knobs can be exactly adjusted to the thickness of various doors.

Claim.—The employment or use of a sleeve C, with a square socket d, in combination with a square projection e, on the end of knob A, said knob being secured to the rod B by means of screw-threads c e', as and for the purpose herein shown and described.

No. 35,925.—James Donning, of Paterson, N. J.—Improvement in Burners for Coal-Oil Imps.—Patent dated July 22, 1862.—This invention consists in the employment of a long, wedge-shaped deflector resting upon the wick tube, and connected with another deflector raing above the wick and provided with an opening at the top for the flame, and also with perforations for the admission of air to be supplied to the base of the flame. Air, also, passes up between the deflectors to the flame, the two being connected and removable together.

Claim.—The cones e and f, connected to each other and removable together from the wick tube, and provided with the openings 2 2, to regulate the action of the air on the flame, the parts being proportioned, substantially as specified and for the purposes set forth.

No. 35,926.—Otto Ernst, of New York, N. Y.—Improvement in Tobacco Ppe s.—Patent dated July 22, 1862.—This invention consists of a smoking-tube made of glass, provided with a second tube, the end of which latter forms a piston for forcing the tobacco forward as it is consumed.

Claim.—The piston pipe or tube formed of glass in the manner specified, and constituting a new article of manufacture for smoking tobacco, as set forth.

No. 35,927.—JOSIAH EVELAND, of Elizabeth City, N. J.—Improvement in Machines for Turning Irregular Forms.—Patent dated July 22, 1862.—This invention relates to an improvement in the machine generally known as "Blanchard's lathe," and it consists in the employment of two or more travelling cutter frames, having different rates of speed, and so arranged in relation to the pattern and the work that the cutter of the slowest frame will act upon the quick curved surfaces of the work, while the cutter of the frame having the more apid movement will act upon the slightly curved parts of the work. The pulleys and belts for transmitting motion to the working parts are so arranged as to admit of the latter, by the adjustment of a single lever, being readily connected to or disconnected from the driving shaft, at the will of the operator.

Claim.—First, the combination in the machine specified of two or more cutter frames, so arranged as to operate with different rates of speed in their travelling movement, substantially

wand for the purpose set forth.

Second, the arrangement of the belts ij m, and loose pulleys k m, with the shaft B and crew shaft G, substantially as shown, for the purpose of readily communicating motion to the pattern and work, and stopping the same simultaneously with the throwing of the screw shaft G in and out of gear with the nuts of the pulley frames F of the cutter frames C C'.

No. 35,928.—H. C. FLETCHER, of Eden, Vt.—Improved Machine for Cutting Roots. Patent dated July 22, 1862.—This invention consists in the employment of a hopper provided with inclined ends and parallel vertical sides, having the lower edges of the latter curved to form a portion of a circle, against which a box is fitted and works, the said box having the thers fitted in it, and being suspended from a rock shaft, by which means the roots are cut Lorizontally and vertically.

Claim.—First, the cutters G H, when connected to swinging pendants E, so arranged that eutters will move in the arc of a circle, substantially as and for the purpose set forth.

Second, the construction and arrangement of the parts to which the cutters are directly tached, to wit, the curved side pieces ff, and bar F, when said parts are arranged with the mer curved ends of the side pieces b b of the hopper, to operate as set forth.

No. 35,929.—J. HERON FOSTER, of Pittsburg, Pa.—Improvement in Attaching Movable Type to Cylindrical Surfaces.—Patent dated July 22, 1862.—This invention relates to that case of printing presses in which the form is locked up on a detachable or permanent segment of a continuous rotating or oscillating cylinder called by compositors a "turile," and

which constitutes the bed. The invention consists in stereotyping all but the latest news matter, while the colums in which it is desirable to make frequent changes are set up of movable type in the form with the stereotype plate and the paper printed therefrom, while arrangement admits of the expeditious changes necessary in a daily paper.

Claim.—First, using a stereotype plate in combination with movable type, on a condesurface, by making that portion of the "turtle" or segment of a cylinder upon which is base of the type rests, deeper than that part occupied by the stereotype plate, for the purpose of bringing the face of the type to the same degree of curvature, also for creating a wall of shoulder against which the type may be secured.

Second, the use of column rules in the form of the segment of a circle, having groote a one or both sides describing the same curve, in combination with wedge-shaped "lead. 4

equivalent device, for the purpose hereinbefore stated.

Third, separating the upper portion or face of the lines of type (arranged for printing a curved surface) to a greater distance than the base thereof, by means of wedge-shaped "kan" or equivalent device, without requiring the type to be grooved for the purpose of retain.

Fourth, the use of a stereotype plate formed in such a manner as that the face or leters surface shall be longer and project over the lower edge of the bearing part next to the Ext ble type, when used upon a cylinder or curved surface, sufficient to dispense with the task wedged-shaped column rules, which would be indispensable upon a curved surface. it is was not done.

No. 35,930.—LAVINIA H. FOY, of Worcester, Mass.—Improvement in Corset Skin Seporters.—Patent dated July 22, 1862.—This supporter is formed of a band to fit around to waist, provided with front pieces, and having at its lower edge a piece projecting horizonal, and also provided with adjustable shoulder straps.

Claim.—A corset skirt supporter constructed substantially as represented in fig. 1.

No. 35,931.—R. A. GOODYEAR, of New York, N. Y.—Improvement in Snap How-Patent dated July 22, 1862.—This invention is explained by the claim.

Claim. —As an article of manufacture the snap hook, constructed substantially as been described, by providing the same in lieu of the ordinary metallic spring, with a spring made of vulcanized India-rubber, and locating the same within the body of the hook or of the same or of both, in combination with a shoulder upon the hook or snap to prevent the rubber sprii. from falling out or being displaced.

No. 35,932.—G. W. GRISWOLD, of Logansport, Ind.—Improved Bridle Halter.—Psrc. dated July 22, 1862.—This invention consists in attaching the bridle portion, which consists of a bit or bits, the ordinary reins, a split strap and a snap hoop, to the halter in such a == ner as to admit of the former being readily attached and detached so as to be converted me a bridle to a halter, and vice versa as desired, without the necessity of removing the halter.

Claim.—The straps k k, united to the bit, and hooked or buckled to the head or fortist strap, the whole being constructed and operating substantially in the manner and for there

pose herein described.

No 35, 933.—G. W. GRISWOLD, of Logansport, Ind.—Improved Can for Preserving Front.—Patent dated July 22, 1862.—This invention is explained by the claim.

Claim.—A fruit can or jar, having a tapering neck, as described, down which a cork or liquid packing may be forced or drawn by atmospheric air, produced by the shruking of the contents of said can or jar, as described, and for the purposes mentioned.

No. 35, 934.—G. H. HAWKINS, of New York, N. Y.—Improvement in Bound France. Patent dated July 22, 1862.—The bonnet frame is composed of a series of wires bent et a suitable frame to the required shape, and braces looped at the ends and soldered to the wat the several points of contact, the whole being united to a suitable crown and covered a a net.

Claim.—A bonnet frame A consisting of wires B C D D' and braces E, said braces but looped at the ends and soldered to the wires B C D at the several points of contact. united with a suitable crown and covered with a net or its equivalent, all substantial. shown and described.

No. 35, 935.—G. F. HAWLEY, of Vienna, Ill.—Improvement in Machines for Filing Ser. -Patent dated July 22, 1862.—The sliding frame E is fitted to move in guides in the man frame; it is connected at one end by means of a pivot to a block F of semicircular form 1 having a graduated scale marked upon it, and the front part of the file frame is provided a 2 a pointer or index i, by means of which the frame E may be set at any required angle on to main frame. In the main frame is placed a saw-clamp G, formed of two parallel bars, there is of which are attached to two uprights having between them a horizontal bar or saw-rest which ber is growed lengitudinally for the reception of the back of the saw to be filed, and to so arranged as to be adjusted to any position vertically. Within the frame E is fined a

ame I, hinged at its front end to the frame E so that its other end may rise and fall, and ithin the frame I is placed another sliding frame K operated by a lever. At the rear end the frame K is secured a socket o in which one end of the saw-file is fitted, and which has n index r that traverses over a graduated are or segment s to indicate the angle or position f the socket.

Claim.—First, the adjustable sliding frame E provided with the internal frame I and inmal sliding frame K in connexion with the adjustable clamp G and adjustable rest o, or its

nivalent, all arranged substantially as and for the purposes set forth. Second, the socket o, index r, and segment s, as shown and described, when applied to the iding frame K and used in connexion with the frame E I, as and for the purpose specified. Third, the index i and graduated block F, the index being attached to the frame E, and the ock F attached to the bar h, when said index and block are used in connexion with tha ames E I K, as and for the purpose set forth.

No. 35, 936.—Solomon Hunt, of Danville, Ind.—Improvement in Foot Warmers.—Patent ted July 22, 1862.—This invention is designed as an improvement upon the device patented the said Hunt on the 25th of February, 1862, and it consists in interposing between the mp and the radiator a combustion chamber, for the purpose of preventing the heat of the me from reaching the lamp containing the alcohol.

Claim.—The combustion chamber G interposed between the lamp and the radiator, sub-

antially in the manner and for the purpose herein shown and described.

No. 35, 937 .- G. B. JEWETT, of Salem, Mass. - Improvement in Artificial Legs. - Patent ited July 22, 1862.—This improvement is designed to be applied in cases of amputation ove the knee-joint, and the device is so constructed that its length may be easily and nicely ljusted to suit the wearer, and so that the limb may be readily bent to assume a natural potion when the person is seated.

Claim.—First, the leg piece A, to which the foot B is hinged at one end, and the spindle D

the other, substantially as described.

Second, the shoulder cand pad i for limiting the motion of the foot B, substantially as speci-

Third, the block E with the spring F, attached to its front in the manner substantially as

Fourth, connecting the socket H to the spindle D in the manner substantially as specified, hereby the length of the leg may be adjusted.

Fifth, in combination with a spindle D pivoted to the head of the leg piece A, the plate A, d pad m, for regulating and limiting the motion of the joint or the position of the leg when

a ghtened out, substantially as set forth.

Sixth, the combination of the socket H and its adjustable pad O with the leg piece A, when y are hinged and connected together substantially in the manner specified.

No. 35, 938.-W. B. KEHEW and C. H. FIFIELD, of Salem, Mass.-Improvement in Hot-Air gisters.—Patent dated July 22, 1862.—The register or outlet pipe is provided with two ap-ht tubes arranged one within the other, the outer tube being higher than the inner one and ger in diameter than the register, and having openings extending around the lower end. the centre of the inner tube are placed upright tubes formed with an elbow at the lower is and passing through the tubes B and C; the object of the device being to combine the hly heated air from the furnace with the cold air at the lower part of the room and to prote circulation of the hot-air and ventilation.

right tubes B and C, the outer tube being perforated at the lower end in the manner speied. Claim.—First, the employment, over the registers or outlet pipes of hot-air furnaces, of the

Second, placing in the inner tube B the tubes E E E, the whole arrangement operating in manner and for the purpose substantially as set forth.

No. 35, 939 .- M. R. KENYON, of Providence, R. I. - Improvement in Lamp-Chimney Clean-. -Patent dated July 22, 1862. -This invention is explained by the claim and engraving. Claim.—First, a series of elastic wiping fingers, each of which is fixed at one end and is se at the other end, which, by its own elasticity, acts independently of the others, and exs a yielding pressure against the interior walls of a lamp-chimney when placed therein, stantially as herein shown and described for the purpose specified.

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Second, the arrangement of two sets of such fingers so that the loose ends of one set of gers extend toward the fixed ends of the other set of fingers, substantially as herein shown I described, for the purpose specified.

Chird, in combination with two sets of elastic fingers so arranged, two sliding disks arranged in a spiral spring or an equivalent force to press the said disks or other sliding piece toward fixed ends of each set of fingers, substantially as shown and described, for the purpose

To. 35, 940.-G. H. KIDNEY, of Cleveland, Ohio.-Improved Clothes Wringer.-Patent ed July 22, 1862.—This invention consists in the employment of two slotted angular-curved

bars or levers, which are made to act upon the bearings of the upper roller by means of springs within boxes at the lower end of the curved bars. The device is held upon the edge of the tub by means of self-adjusting levers hung upon a rod.

tub by means of self-adjusting levers hung upon a rod.

*Clsim.—The combination of the slotted angular-curved lever E E, roller A A, springs in boxes D D, jaws H H, and self-adjusting levers F F, all arranged as and for the purpose

specified.

No. 35,941.—JAMES LEE, of Stevens's Point, Wis.—Improvement in Breeck-Loading Finerus.—Patent dated July 22,1862.—Upon the lower part of the rear end of the barrel is formed a tongue d which is fitted to slide in and out of a groove in the frame below the breech, and across the tongue is cut vertically a notch s for the front part of the hammer but to work in. This part of the hammer is provided with a transverse notch just wide enough for the tongue d of the barrel to pass through, so that the barrel may be locked to the breech in a closed condition in all positions of the hammer except that of half-cock, and is unlocked in that position of the hammer.

Claim. —The hammer E provided with a notch g and applied in combination with the notched tongue d c on the rear of the barrel, substantially as and for the purpose herein to

scribed.

No. 35,942.—W. A. LIGHTHALL, of New York, N. Y.—Improvement in Steam-Boiler.—Patent dated July 22, 1862.—This invention consists in creating a forced and continuous circulation of the water contained in a steam-boiler, through the lower section of the series of the tubes of the boiler, and from thence through the remaining sections of the series of the same to the body of the boiler, by means of a proper force pump operated by any desired means.

Claim.—Producing a forced and continued circulation of the water in a steam-boiler either through the tubes of the boiler or through and in the shell or body of the same by mechanical

means, as and for the purposes herein set forth.

No. 35,943.—W. S. MABBETT, of Calverton Mills, Md.—Improved Preserving Hour.—Patent dated July 22, 1869.—The ice-chamber B is placed centrally within the building and over this chamber is the ice compartment C, the flooring of which is inclined towards the upper edges of the ice-chamber. The bottom of the ice-chamber is also inclined so as tofom a gutter at its centre, one end of which communicates with a waste-pipe extending to the flow of the compartment F in which the articles to be preserved are placed. The water flowing through the waste-pipe serves to keep the floor of the apartment F cool.

Claim. - The combination of the ice-chamber B and ice compartment C with the waste pipe

G arranged within the building A, as and for the purpose herein set forth.

No. 35,944. -G. T. MAY, of Tompkinsville, N. Y.-Improved Gaff Sails.-Patent dated

July 22, 1862.—This invention is explained by the claim.

Claim.—The application of the strain rope c or its equivalent diagonally from clew to throst of a gaff sail, as specified, in combination with a gaff sail whose head d and luffs are of equal length with each other, and whose after-leech f and foot g are also of equal length with each other, so that when the upper half A is doubled down on either side from the line of the strain rope c upon the lower half B the sail will be thereby reduced in area just one-half, will be also a smoothly duplicated or two-fold sail over the area of the said lower half, the strain rope c or its equivalent then becoming a bolt rope to the bight of the double sail, and so that by the resetting the upper half in juxtaposition with the lower half, the said double sail will be also thereby trimmed for use on either tack without any necessity for furling the said upper half, substantially as specified.

No. 35,945.—WILLIAM MEIGS, of Waynesville, Ohio.—Improvement in Harvesters—Patent dated July 22, 1862.—The real is formed of curved rods t, fitted loosely in two sets of arms r s, one set r being attached to two shafts, and the other s to a ring suspended from a bar, all so arranged that as the arms rotate, the rods t will sweep over the front edge of the platform at an equal distance from it all around its edge and throw the cut grain evenly upon the platform. Upon the lower part of a vertical shaft T is placed a cam formed of a curved annular plate bent out of a horizontal plane and secured to the upper surface of a wheel r. Fitted in the shaft T is a rake shaft V having in it a longitudinal slot which allows it to more a certain distance, and attached also to the shaft T is a spring W, which tends to keep the rake arm off from the said shaft the length of the slot. In the rear of the platform at its discharging side is a stationary rake B', the teeth of which pass between those of the army upon the platform.

Claim.—First, the reel formed of curved rods or beaters t, and in arms r r, arranged as shown in combination with the curved or semicircular sickle bar P and platform L, as and for

the purpose specified.

Second, the cam U, constructed as shown in connexion with the spring W, and longitudinal

slot c', in the rake arm V, for the purpose of operating the latter as set forth.

Third, the stationary rake B' arranged as shown, in combination with the intermittingly rotating rake arm V, for the purpose specified.

No. 35,946.—J. C. PENNINGTON, of Paterson, N. J.—Improvement in the Manufacture of Nurate of Potash from Nitrate of Soda.—Patent dated July 22, 1862.—The object of this invention is to produce or prepare saltpetre and bi-carbonate of soda from common pearlash or carbonate of potash and Chili saltpetre or nitrate of soda.

Claim.—The within described process of manufacturing saltpetre and bi-carbonate of soda by treating nitrate of soda with bi-carbonate of potash, and alternately crystallizing from the solution bi-carbonate of soda and nitrate of potash, substantially in the manner described.

No. 35,947.—H. O. PEABODY, of Boston, Mass.—Improvement in Breech-Loadiag Fire-arms.—Patent dated July 22, 1862.—The trigger guard lever is forked above its fulcrum pin, the forked portion being connected to the hinged breech-block by means of a pin d, which works in a long slot provided in the breech-block for its reception. By pulling down the rear end of the trigger-guard lever, the pin is caused to move along the slot and so depress the front end of the breech-block below the barrel to permit the introduction of a cartridge. Attached to the rear part of the breech-block is a spring provided at its front end with a roller which presses against the under part of the breech-block, and rests in notches at the extremities of its movement for retaining in an open or closed position the breech-block and barrel. An elbow lever of thin steel plate is arranged to work in a mortise in the breech frame below the barrel, and serves to withdraw the discharged cartridge case from the barrel, its operation being effected by the depression of the breech-block preparatory to the insertion of a cartridge

Claim.—First, having the under part of the breech-block slotted as shown at e, in combination with the pin d and lever E, as and for the purpose herein shown and described.

Second, the employment of the roller i and its spring G in combination with the notches

jland block D, as herein shown and described.

Third, the combination of the lever F with the breech-block D and frame A, as herein shown and described.

No. 35,948.—Asa Pettengill, Jr., of Peterborough, N. H.—Improvement in Stave Machines.—Patent dated July 22, 1862.—This invention consists in the employment of a movable lever or switch in connexion with a guide, to which the former is applied, so operated by the block and carriage, that each stave while being drawn backward will be deflected laterally upon the chute and be discharged from the machine, so that by means of the chute the usual labor of removing the stave from the carriage and from below the block and the guide will be avoided.

Claim.—The combination of the switch F with the guide E, the saw A, and the carriage D, the whole being made to operate substantially in manner and for the purpose as specified. Also, the above-described arrangement and combination of the guard H and the chute G

with the switch F, the guide E, the saw A, and the carriage D.

No. 35,949.—E. O. POTTER, of New York, N. Y.—Improvement in Cartridges.—Patent dated July 22, 1862.—This invention consists in uniting pressed powder to a ball by surrounding their adjoining edges with a collodion belt or zone extending over upon each sufficiently far to hold them firmly together while being transported or handled.

Claim.—Uniting solid or pressed powder to a ball by a belt or zone of collodion in the

manner and for the purpose substantially as described.

No. 35,950.—H. F. READ, of Brooklyn, N. Y.—Improvement in Pipe Wrenches.—Patent dated July 22, 1862.—This wrench is constructed with a toothed eccentric attached to the jaw, and to which eccentric is attached a chain and rod surrounded by a spiral spring placed within a hollow handle, and serves, with the rod, to keep the eccentric pressed against the

Claim.—In combination the hollow handle C, spiral spring i, chain h, and eccentric B,

substantially as described and for the purpose set forth.

No. 35,951.—E. R. READ and N. F. REED, of Hyde Park, Vt.—Improved Mop Head.— Patent dated July 22, 1862.—This invention consists in the employment of a metal bar provided with teeth and hinged at one end to a bar attached to the handle, and at the other end provided with a spring catch by which the mop is secured between the bars.

Claim.—The employment of the lever B b, hinge C, and spring catch E, arranged to ope-

rate together, substantially as herein described.

No. 35,952.—T. K. REED, of East Bridgewater, Mass., and H. F. PACKARD, of North Bridgewater, Mass.—Improvement in Eyelet Machines.—Patent dated July 22, 1862.—This machine is composed of a stationary hopper in which the eyelets are placed and from which they are swept by an oscillating brush into holes provided for their reception in an intermittently rotating cylinder, by which they are delivered to a laterally oscillating inclined chute which deposits them one by one upon an upright pin, working through an upright reciprocating bolster, by which, after the perforations provided in the cloth or other material for their reception have been placed over them, they are brought into contact with a stationary punch and riveted, the several parts being operated by a lever treadle, or other suitable mechanical means. by which they are severally put in motion.



Claim.—First, the combination of the hopper D, the rotating cylinder F, the cam H, and the chute I, substantially as and for the purpose herein specified

Second, the oscillating brush E applied and operating in combination with the hopper D and cylinder F, substantially as and for the purpose herein described.

Third, the stationary brush G applied and operating in combination with the hopper D and cylinder F, substantially as and for the purpose herein set forth.

Fourth, the curb J and inclined plane K applied and operating in combination with the cylinder F and chute I, substantially as and for the purpose herein specified.

Fifth, the combination of the laterally oscillating chute I, the reciprocating bolster L. F.

h, and fixed punch l, the whole arranged and operating substantially as and for the purpose herein set forth.

No. 35,953.—HENRY REICHERT, of Shippensburg, Pa.—Improvement in Flour Bolts.— Patent dated July 22, 1862.—To the inside of the arms or bars C which support the bolize cloth are fastened metal spring bars E, which are caused to vibrate at each revolution of the bolt by means of sliding hammers passing loosely through the main shaft. The bars E upon one side of the shaft are connected to those on the opposite side by metal rods or strap whereby the vibration caused by the fall of the sliding hammer is imparted to the bolize cloth both above and below the shaft. The sliding hammers are regulated by means adjusting plates H through which they pass. These plates are confined to the shaft by proper fastenings so that they can be drawn close against the hammers to keep them states. ary, or be adjusted with any degree of force less than the full blow.

Claim.—First, the combination of the bars C C, and sliding hammers F, and adjusting

plates H, substantially as set forth.

Second, the combination of the rods or straps G G, with spring arms E, hammers F, 2n! arms C C, as and for the purposes set forth.

No. 35,954.—HORACE A. ROBISON, of Cleveland, Ohio.—Improvement in Appearatus for Pressing and Ironing Hats.—Patent dated July 22, 1862.—This invention consists in the employment of a tapering or wedge-like tenon B, having a vertical front and inclined back and fitting within a corresponding mortise. In the bottom of the mortise is a lateral projection C, the front part of which is inclined to correspond with the V-shaped bottom of the tenon B, for the purpose of holding the collar firmly in a horizontal position. Projecting from the upper side of the disk D is a round tenon or journal D" by means of which, the block with the hat can be readily turned or placed in any position desired.

Claim.—First, the tapering tenon B, and tapering mortise with the projection C, for the

purpose set forth.

Second, the collar, and tenon or journal D 2 in combination with the tapering tenon B. and mortise, as above described.

No. 35,955.—C. H. ROBINSON, of Boston, Mass.—Improvement in Lamps.—Patent dated July 22, 1862.—The nature of this invention is explained by the claim.

Claim.—The wick tube and wick moving vertically together, instead of moving the wick

alone, as heretofore practiced.

Also, the simultaneous vertical motion of the wick tube and button, by which their dis tance apart is always kept uniform, by means of the screw and attached parts, as berea fully described, or their equivalents.

No. 35,956.—J. A. SCHNEIDER, of Cleveland, Ohio.—Improvement in Trues Pade.—Patent dated July 22, 1862.—This invention consists in so constructing the trues that the pressure of the pad may be easily and conveniently regulated after it has been properly adapted and fitted to the body of the wearer, which is effected by means of a binged per plate provided with a spring, one end of which is connected to a cog wheel operated by worm screw. By turning the thumb head of this screw the spring is more or less order

and the tension of the said spring thereby regulated.

Claim.—In combination with a hinged pad plate E, the spiral spring G, cog wheel H, and worm screw I, the whole being arranged in the manner substantially as set forth

for the purpose specified.

No. 35,957.—O. C. SMITH, of Salem, Mass.—Improved Submarine Armament of Vessels.— Patent dated July 22, 1862.—This invention consists in the application of two horns or projections to each end of an iron-clad vessel, arranged to strike an enemy's vessel below the water line. Between these horns are placed ways supporting carriages, by means of which mortars or other pieces of ordnance may be run out from an opening in the vessels side and exploded under an enemy's vessel. The carriages are moved in and out by means of a windlass and rope or chain, operated by the engine or other power. The windlass and ropes are placed within a water-tight passage extending along the bottom of the vesseland communicating with wells near the ends of the vessel.

Claim.—The combination of the mortars J and mortar carriages F G with the passage H

and wells D, substantially as and for the purpose herein shown and described.

Also, the combination of the windlasses E E L L with the carriages F G and mortars J, in a manner and for the purpose herein shown and described.

Also, the combination of the horns C C and cross-bar I with the mortar carriages F G, in a manner herein shown and described.

No. 35,958.—PIERRE THIRY, of Paris, France.—Improvement in Horseshees.—Patented France, May 27, 1861.—Patent dated July 22, 1862.—This invention consists of a port-le device designed to be readily applied and adjusted to the ordinary shoes of horses or her animals to prevent them from slipping. The claim explains the general construction in mode of applying the device.

Claim.—The herein-described apparatus to be applied to the shoes of horses, mules and her shod animals, to prevent them from slipping in frosty weather, the same consisting of brace extending across the foot, and a toe clip extending from the toe backward, when the are provided with spikes, and are constructed to operate substantially in the manner

d for the purpose herein set forth.

No. 35,959.—L. W. TURNER and H. H. Mix, of Meriden, Conn.—Improved Trace Fasteng.—Patent dated July 22, 1862.—This invention consists in the employment of a small rod shaft D, having a pendent lip at its outer end, the rod or shaft being fitted in a box seried to the whiffletree, and having a spiral spring connected at one end to the rod or shaft, hich spring is enclosed within the box and has its other end attached thereto so as to keep slip of the rod or shaft in contact with the face of the draw iron of the whiffletree, the ris being used in connexion with a stop and thumb piece attached to the inner end of the

Claim.—The red or shaft D, provided with the pendent lip s, and thumb piece E, in comnation with the box C, spiral spring b, and draw iron B, with or without the stop j, all ranged and applied to the whiffletree, substantially as and for the purpose set forth.

No. 35,960.—G. W. Van Brunt, of Horicon, Wis.—Improvement in Seeding Machines.—
tent dated July 22, 1862.—This invention consists in placing the openings in the rear of a
s drawn perpendicularly through the centre of the seed cylinders and forming a chambered
sss in the under side of said caps concentrically with the axis of the seed cylinder, whereby
y seeds which may chance to lodge upon the top of the partitions forming the seed cells or
ckets, are prevented from being crushed or bruised between the partitions and the inner
ttem edge of the opening in the cups while the seed cylinders are in motion.

Under the seed box and cylinders is arranged a series of pendent tubes, formed each of two-neated hollow cones, united together at their smaller ends. In the lower part of each tube a cone provided at its lower end with a circular flanch. A space is left between the cones

I the tube for the passage of the seed.

 $N_{eim.}$ —First, the concentric-chambered recess k in the cap G, in combination with the inders E F, and seed openings s, when arranged to operate in the manner and for the pose set forth.

second, the cones N, having a horizontal circular flanch m at their lower ends, in comation with the peculiarly shaped tubes M, when constructed in the manner specified.

35, 961.—JACOB VAN HORN, of Plainfield, Ill.—Improvement in Cultivators.—Patent & July 22, 1862.—The standards are formed as shown in the engraving, and are provided h wings near their lower ends, which may be readily removed or retained for certain operms. The standards are secured to longitudinal bars, which are made adjustable so as to ulate their distance apart.

Alarm.—The combination of the peculiarly constructed standards S with the removable igs a, the regulating oars B B', and braces F, all arranged and operating as and for the

poses described.

No. 35,962.—G. W. WALKER, of Boston, Mass.—Improvement in Cooking Store.—Patent ed July 22, 1862.—The object of this invention is to provide a means for carrying on not y the process of baking in a closed oven, but one by which roasting may be effected, when ired, by direct radiation of heat and light from the fire into the oven, and is designed to abine the advantages of the ordinary cooking stove having a closed oven with those of common tin kitchen.

*Coins.—Constructing the oven so as to open toward the fireplace grate, and providing the ning with a register, or means by which heat and light from the fuel, when on fire in the te, may either be radiated directly into the oven or excluded therefrom, substantially as

for the purposes above specified.

lso, the arrangement and combination of the register-slide chamber He the register the open grate a, oven A, and the flue space about the oven, the whole being substantly as above described.

10. 35,963.—Henry Warner and B. F. Palmer, of Boston, Mass.—Improvement in it ilating Windows for Tents.—Patent dated July 22,1862.—Near the apex of the tent are axaber of openings, ever which is arranged a hood securely sewed to the tent near the apex.

The hood may be opened from the inside at one or all of those openings by means of a conattached to the edges of the hood. Weights attached to cords connected to the edges of the hood outside, serve to close the openings when the cord inside is released.

An opening is provided in the side of the tent over which is a slide arranged to be opened

from the inside.

Claim.—First, a secondary hood or cowl attached to the canvas of the tent near the apr. when the same is so arranged that it can be raised at one or more points by cords works from the interior of the tent, and returned to position by weights, or their equivalents the whole operating in the manner substantially as described.

Second, a sliding canvas shutter, D, arranged substantially as described, in combinate

with an aperture I, for the purposes specified.

No. 35,964.—T. W. WISNER, of Osceola, Mich.—Improved Ready Marker.—Patent dark July 22, 1862.—The sliding blade is so arranged in relation to the handle and a sper catch that by turning the open end down and releasing the blade the latter will slide at and be retained in working position by the spring catch, and upon turning it up and release the spring catch the blade will return to the handle, so that one hand only need be used opening and closing it.

Claim.—The longitudinally sliding blade B, or its equivalent, in combination with handle A and spring catch c, constructed and operating substantially as and for the pupe

shown and described.

No. 35,965.—J. P. WOODBURY, of West Roxbury, Mass., and S. S. GRAY, of Boste Mass.—Improvement in Sabot for Feather Projectile.—Patent dated July 22, 1862.—This :vention consists in combining with a winged projectile an elongated cylindrical sabot max of paper pulp or other similar material, which fills the spaces between the wings, and form with the shot a solid cylindrical mass which fits the bore of the gun and serves to stop in windage, and, if the gun be rifled, takes the grooves and imparts rotation to the projects. A hole is provided in the rear of the sabot for the purpose of exposing a part of the shot duest. to the force of the charge and relieving the sabot of a portion of the pressure.

Claim.—The employment, in combination with a winged shot, of a sabot, externally drical and fitting the gun, and enveloping and enclosing the wings, and made with a care

sperture C for detaching the same, substantially as described.

No. 35,966.—Calvin and G. M. Woodward, of New York, N. Y.—*Improcement in Sun*a Pumps.—Patent dated July 22, 1862.—The object of the combination of parts claimed shown in the engraving, is to render the operation of the valve more certain than that by tappet or other valve motion actuated without a fly-wheel; and the connexion of the CEL shaft with the piston rod, by means of the vibrating link and sliding box, permits its arrange ment between the cylinders, where it occupies no room in a direction lengthwise of cylinders, and admits of the cylinders being brought a little closer together than when tappet motion is used to work the valve.

Claim.—Combining a crank and fly-wheel with a direct connexion steam pump, by of a vibrating link G and sliding box d, arranged and applied in connexion with the post-

rod and between the steam and pump cylinders, substantially as herein specified.

No. 35,967.—J. M. Brown, of Cincinnati, Ohio, assignor to Himself and Dust MCLAREN, of the same place.—Improvement in Car Brakes.—Patent dated July 22, 1802-This invention relates to a provision whereby an excessive strain upon either the brake reor the windlass acts automatically to draw out said rope and to relax or remit a parisa of the tension proportionate to said excess, so that any sudden or violent strain upon the cate acts merely to slip the windlass and to draw the cable out, while any slack resulting tree the shortening of the strain, or other cause, is immediately taken up by the windless

Claim.—The shaft G, having a fast collar N and an adjustable collar O, loose fricing windlass R, nut P, and spring Q, or their equivalents; the whole being so combined & produce an automatic relaxation of excessive brake tension, substantially as set forth.

No. 35,968.—George Campbell, of Waterford, N. Y., assignor to Himself, Growth GAGE, and G. C. GAGE, of the same place.—Improvement in Circular Knitting Machine. Patent dated July 22, 1862.—This invention relates to the take-up of those cylinder kning machines in which the needle plate or needle ring and the work have a rotary motion as consists in a means of producing and controlling the movements of a pair of take-up rotate. arranged above the knitting machine with their axes perpendicular to the axis of rotative of the needle plate or plates.

Claim.—Fig.t, the employment for operating the take-up roll or rolls D D' of a lever ! attached to the rotating frame of the take-up, and rotating with the said frame, in other with a fixed eccentric q, a pawl lever E, carrying a pawl i and a ratchet wheel a grant the said rolls, the whole combined, applied, and operating substantially as here.

Second, controlling the action of the take-up by the tension of the cloth by means of its frame H, bar t', roller I, spring K, or its equivalent, and rod L, the whole applied in com-

bination with the take-up rolls, and with the pawl i, from which they derive motion, substantially as herein specified.

No. 35,969.—WILLIAM CANTER, of New York, N. Y., assignor to Himself and SAMUEL BERNSTEIN, of the same place.—Improvement in Machinery for Manufacturing Chenille.—Patent dated July 22, 1862.—The inventor says: In the use of this machine the stuff does not require to be previously woven in a loom as in the ordinary method of production, but the silk which is to form the plush surface, and the wires, or cords, which are to retain the same, are fed directly from suitable bobbins and retained in position at a single operation. The cutting off of the material for the plush and its introduction properly between the longitudinal parts is made continuous by the automatic winding of the former around two endless belts which are drawn with proper speed through the winding apparatus, and may be operated continuously to any extent desired.

Claim.—First, in machines for producing chenille, cutting the plush of a proper length at a continuous operation, after winding it around the two belts G G, by carrying it, when so wound, under or past a cutting edge acting in the plane between said belts, substantially as

herein specified.

Second, in such machines the insertion of one of the wires or cords in the triangular or other suitable space between two endless belts G G, and the covering material, for the purpose

Third, the use, in chenille machines, of the twisted cords U U and dividing post W, when used to operate in connexion with the shaft J, or its equivalent, on the machine, so as to be moved with a velocity corresponding with the means of delivering the chenille to be twisted, substantially in the manner herein set forth.

No. 35,970.—R. M. Davis, of Eaton, N. Y., assignor to H. L. HOPKINS, of Lebanon, N. Y.— Improvement in Harvesters.—Patent dated July 22, 1862.—The nature and object of this invention will be understood from the claim.

Claim.—First, a finger bar, so combined with the frame of the harvester and the mechanism by which the cutters are vibrated, that it may at pleasure be turned over, so that the machine may be drawn in either direction and perform the same duty, substantially as described.

Second, combining with the outer end of a finger bar of a harvester, a track clearer for the purpose of sweeping the cut grain or grass inward as it falls over said finger bar by mechanism substantially such as represented and described, whereby the track clearer is made to always project rearward or behind the finger bar, and at an acute angle therewith, its movements being governed by the rotation of the finger bar, substantially as described.

Third, combining with the inner end of the finger bar an operative arm, and, by mechanism

substantially such as described, the opposite end of said arm with the main frame and draught pole which is pivoted to the main body of the machine, whereby the finger bar may be inverted either by turning the main body of the machine or without changing the main body of the

machine, substantially as described.

Fourth, combining with the inner end of the finger bar an operative arm, provided with an extension joint Q, and the ball joints i w, or their equivalents, whereby the finger bar may be supported at any desired elevation, and the rotation thereof be accomplished by means substantially such as described.

Fifth, the combination of the pitman or connecting rod with the crank head at one end, and to the knife bar at the opposite end, so that the cutter bar may be inverted without dis-

connecting the pitman, substantially as shown.

Sixth, the combination of the pitman or connecting rod with the knife bar E and finger bar D, whereby they may both be rotated in the manner substantially as represented and described and for the purposes specified.

No. 35,971.—J. H. DOOLITTLE, of Derby, Conn., assignor to Himself and Franklin Farrel, of Ansonia, Conn.—Improvement in Wrenches.—Patent dated July 22, 1862.—This device consists of a single piece of metal bent over near one end to form an angle, and having the inner surface of the bent end serrated or roughened and the opposite surface smooth.

Claim.—A wrench formed with an angle, substantially as hereinbefore described, for the

purpose set forth.

No. 35,972.—WILLIAM F. ENSIGN, of Lansingburgh, N. Y., assignor to JAMES WILLCOX, of Brooklyn, N. Y.—Improvement in Felling Guide for Sewing Machines.—Patent dated July 22, 1862.—This device is composed of two formers, the one a being made with a wing projecting in the rear, and lying at an angle across the path of the feed, and scooped or shelving upwards, when it is connected by an extension or back piece to the plate by which it is attached to the bed of the machine, and made gradually of a tapering spiral or convolute form towards its front end. The other former d consists also of a wing arranged a little above or over the side of the back piece b, to which it may be connected by a bent arm that permits the said wing to spring and thus forms an elastic blade; it is also made of a tapering spiral or convolute form at its forward end to correspond with the forward end of the other former, and surrounding the same, so as to leave an intervening space for the cloth. Each former has the effect of an elastic blade to accommodate different thicknesses of cloth.

Claim .- As new and useful in sewing machines, guides which serve to fold or turn the edge of the material being sewed, constructing the former or formers of said guides of as elastic blade or blades, capable of springing to adapt themselves to different thicknesses of

material, substantially as herein specified.

Further, the combination and arrangement in one instrument, and relatively to each other, either of the surfaces of the former or formers, so that two edges engaged simultanously within said surfaces, of the same or different material, shall by the feed be presented to the needle, and across its path folded and interlocked, substantially as described and shows

No. 35,973.—S. M. FEEZLER, of Seneca Falls, N. Y., assignor to Himself, VAN R. Swil and Samuel Thomas, of Fayette, N. Y .- Improvement in Horse-Powers .- Patent dated Jir 22, 1862.—This invention consists in an arrangement of cog gearing and pinions for transmitting motion from the driving wheel to the rim of the platform, by which it is designed. gain speed without an undue strain or unequal working of the parts. The draught trees are secured to the sweeps by swivel joints and are connected with each other by chain tr means of which the horses can pass over ground of unequal surface, and the strain upon sweeps be equalized by being transferred from one to the other when an undue strain is exerci upon any one of them.

Claim.—The set of gearing composed of the parts B C D E E and G G, arranged, ***

bined, and operating substantially as and for the purposes herein set forth.

Also, the draught trees M M M', secured respectively to the sweeps by means of swinting the swinting the swinti joints h h, so as to have a free turning motion when the same are connected with each our by means of the flexible chains N N N and P P P, substantially as and for the purpose herein specified.

No. 35,974.—SMITH HEAD, of Millersburg, Penn., assignor to Himself and William MCKISSICK, of the same place.—Improvement in Shingle Machines.—Patent dated July 22 1862.—To the side of the endless belt C, which works upon shafts placed in each end of 's bed piece, are secured at a suitable distance apart dogs F, which project through space between the guides of the bolt, and have notched or serrated edges. To the belt are are attached a series of bars G which serve as bearing surfaces for the bolts, there being a == in front of each dog F, between which bar and dog the bolt is placed. A circular aw H J placed in close proximity to the bed piece and cuts the shingles from the bolts.

Combined with the framing is a box K, having an inclined endless apron for its bottom its highest end being at the front or feed end of the machine. Its rear end is inclined a that the lower end of the bolt is thrown forward, and the endless apron at the bottom carry the bolts to the front end of the machine in a position reverse to that in which they

were previously fed to the saw H.

The saw I is used for dressing the bolts preparatory to sawing them into shingles, are works in a slot in a movable bed N, to the outer edge of which is attached a rack engaging with a pinion. This pinion is secured to a shaft whose outer bearing is in the end of a keep to which a treadle is attached, and by the operation of which the movement of the feed le-N is regulated at the will of the operator.

Claim.—First, the endless belt C, provided with the dogs F and bars G, and fitted w adjustable bed piece B, as shown, and used in connexion with the new H, to operate as and

for the purpose set forth.

Second, the box K, provided with the endless apron M and inclined back m, in combation with the saw H and endless bolt-feeding belt C, all arranged for joint operation seems

for the purpose herein specified.

Third, the combination of the bolt-dressing saw I with the shingle saw H, when in former is provided with a feeding bed N, operated through the medium of the rack 0 and pinions P U, the latter being on an adjustable shaft R, connected with a lever S, having treadle T attached and arranged as shown, whereby the bed N may be operated at the of the attendant from the driving shaft E, having a constant motion.

No. 35,975.—J. R. IRWIN, administrator of WILLIAM IRWIN, deceased, late of North Coventry township, Pa., and EDMUND GUEST, of Pottstown, Pa.—Improved Washing.—Patent dated July 22, 1862.—This invention is composed of a hox contains: two semi-cylindrical rubbers, between which the clothes to be washed are placed, a vibra: motion in contrary directions being imparted to the rubbers, the upper one of which is one nected to levers, so as to be raised when desirable. The journals of the upper rolls part through and are guided by slotted plates secured to each side of the box.

Claim.—First, the box A, with its semi-cylindrical rubbers D and K, when the latter so connected to the levers M and N, or their equivalents, as to be thereby raised and lowered, and when a vibrating motion is imparted to the two rubbers in contrary direction

as set forth.

Second, the use of the plates d for the reception of the journals of the rubber E, the miles plate being so constructed as to guide the upper rubber to its proper position, as specified

No. 35,976.—WILLIAM PETERS, of Baltimore, Md., assignor to Himself and Auren BUCK, of the same place. - Improvement in Coating the Bearings of Boxes for Axis,

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ke.—Patent dated July 22, 1862.—The lining, which forms the bearing, consists of one or more layers of plates or slabs made of a composition of asbestos and some vegetable or minal libre or substance, and in some cases of asbestos and plumbago or some mineral substance. Alternate layers of the two substances are placed together and subjected to a heavy pressure, by which they are formed to the desired thickness or shape.

Claim.-Lining the bearings of boxes for axles, shafts, &c., with the plates, slabs, or blocks

made of the materials herein set forth.

No. 35,977.—T. W. ROYS and G. A. LILLIENDAHL, of New York, N. Y., assignor to said G. A. LILLIENDAHL.—Improvement in War Rockets.—Patent dated July 22, 1862.—The case of this rocket is made of thin iron, and welded to a thick base provided with holes for the exit of the gases. A cylindrical piece of cast-iron is firmly tapped into the base piece, in the line of the axis of the rocket, and upon the cylindrical piece is cast a series of spiral wings or blades placed at such a distance from the holes in the base piece as to allow the issuing gases to expand and exert nearly their full force in propelling the rocket before they strike the screw to cause the rotation. Above the base piece is an open-topped dome or washer C, to allow the gases to freely enter and be distributed equally to the vent holes.

Claim.—First, causing the issuing gas to impinge upon spiral wings or equivalent deflectors at a little distance in the rear of the orifice or orifices, substantially as and for the

purposes herein set forth.

Second, the use of the internal casing C, within the rocket, arranged in the manner and so as to equalize the issuing of the gases, as herein set forth.

No. 35,978.—J. H. and G. W. SMITH, of Portchester, N. Y., assignor to J. H. SMITH, aforesaid.—*Improvement in Tombstones*.—Patent dated July 22, 1862.—This invention consists in the use of channels leading from below through the bottom of the pedestal to the coket which receives the tablet, so that the sulphur or other material used for fastening the tablet in the pedestal can be poured in from below, and when the stone is in an erect position, no traces of the cementing operation will be visible.

Claim.—Introducing the sulphur or other cement generally used for securing together the tablets and pedestals of tombstones through channels d, passing up from the bottom of the pedestal, substantially in the manner and for the purpose herein shown and described.

No. 35,979.—C. C. STANSELL, of Middleboro', Mass., assignor to Himself and A. W. Rockwood, of Newton, Mass.—Improvement in Lamps.—Patent dated July 22, 1862.—The flame adjuster is of tubular form and surrounds the wick where it projects above the lamp cap. Its upper end fits closely to the wick, but below this part it is formed with an annular cavity which serves to prevent the wick from being charred, and to prevent the adjuster from causing a too rapid vaporizing of the oil in the upper part of the wick.

Claim.—The above described arrangement of an annular flame adjuster f, with a stationary

tabular wick D, and wick tube B, the whole being to operate together as specified.

Also, the combination of the flame adjuster F, in manner substantially as described, viz., with an annular space g, arranged around the wick and immediately below the part f, which presses against the wick, the same being for the purpose as hereinbefore specified.

No. 35,980.—C. H. GRIFFIN, of Lynn, Mass., assignor to W. D. RICHARDS, of the same Pare.—Improced Apparatus for Grinding Ores and Amalgamating the Precious Metals.—Parent dated July 22, 1802.—In this machine are employed an upper and lower table. Supposed by a frame upon the upper table is a cast-iron cylinder open at both ends, and provided with necks which serve as journals. Within the cylinder are arranged two rubbers, which are made adjustable, so as to regulate the distance between their edges and the inner

urface of the cylinder.

Under the discharge opening of the cylinder is arranged a hopper for receiving the pulver-ized material, and to the lower end of the hopper is attached a spout leading to a funnel-laped basin G, which forms the mouth of a hollow shaft that conducts the material to the analgamating tub, where it is subjected to the action of the mercury. The basin G is formed in two parts, the inner part forming a hollow cone inverted and closed at the bottom, so that the material in this part overflows, by means of centrifugal force as the basin is rotated, into the other or outer part of the basin. The inner surfaces of the basins are coated with merciary so as to attract particles of fine gold. At the lower part of the hollow shaft are secured three disks at short distances apart, the upper and lower ones being provided with arms or projections on their lower sides. The central disk is perforated, and is provided with arms va its upper side.

Claim.—First, the combination of the rotating cylinder D with the manner substantially as and operated in the manner substantially as and

Second, in connexion with these, the hopper E and spout F, the double funnel-shaped basins G and G', hollow shaft H, disk m * and o, as provided with arms s and p, and tub I, be whole being arranged, constructed, and operated in the manner substantially as and for he purposes set forth. Digitized by GOOGLE

Third, in combination with the basins G and G', or their equivalents, and hollow shaft H. through which the ores to be amalgamated are passed and fed into the mercury, the arrangement of a series of disks m n and o, the upper and lower ones of which are provided with arms or stirrers, and the middle one with perforations, the whole being submerged in mercu; operating in the manner substantially as and for the purpose set forth.

No. 35,981.—WILLIAM REYNOLDS, of Manchester, N. H.—Improvement in Looms.—Pakti dated July 22, 1862.—This invention consists in the employment of a grooved standard at the or both ends of the rail (curved or otherwise) for the purpose of holding the rocker upon trail when it is worked by the picker staff to throw the shuttle. A roller is arranged in it stand next to the side of the loom, and, as the end of the rocker descends when the shure. thrown, it works under the roller so as to bring the curve M against the roller and parta.

under it, the roller being arranged to turn on a pin in a stand fastened to the rail.

Claim.—In combination with the rocker and rail a grooved standard at one or both extensions of the rail, curved or otherwise, for the purpose of holding the rocker on the rail when it

rocker) is worked to throw the shuttle, substantially as described.

Also, the roller L, in combination with the grooved standard K and rocker G, for the process. pose set forth, substantially as described.

No. 35,982.—FERDINAND GARBER and SYLVANUS SHIMER, of Terre Haute, Ind.—!+ provement in Dirt Scrapers.—Patent dated July 22, 1862.—This machine is composed of a frame having a wheel near its front part, a roller at the rear provided with curved lever. at a scraper connected with a trough, and is designed to be used for levelling and grading -: as: roads, or fields, and distributing the loose earth or sand as may be necessary.

Claim.—First, a combination of wheel Z and roller G with its levers b b and braces.

Second, the scraper a a' and trough with their braces, all subserving the uses of scrape:

levelling, and distributing, substantially as set forth.

No. 35,983.—Samuel Kingsland, of Lyndon, Wis.—Improved Wood-bending Machin. Patent dated July 22, 1862.—Within a cylindrical casing of cast-iron or other suitable manufacture. terial is journalled a hollow cylinder made in two or more sections of different or decreas: diameters, in which is placed the fuel. The sections of the cylinder are supported up 1 a series of plates placed transversely across the casing. An outer plate extending above to cylinder, and corresponding to it in form, is made to support a series of feed rollers which provided with pinions meshing into each other. The said plate is provided with projection and bevelled slots, in which are placed boxes that receive the journals of the feed rollers. By means of set screws on the said projections, in connexion with the boxes, the feed rollers ray be adjusted to any desired position, by which means the wood in an unseasoned state conseasoned, after having been soaked in water, may be bent in any desired form over the based cylinder, and retained in that position until by a process of seasoning, it is caused to retain permanently the form imparted to it.

Claim. - First, the application to wood bending of hollow cylindrical forms, construction

arranged, and operated as herein described.

Second, the construction and arrangement of the metal plates C C' C" in combination will the hollow cylinder A B, arranged thereon and secured together by the cross braces a a xthe cross tie m' with their journals and journal bearings, crank e, door A, draught hole b, a:pipe c, all arranged in the manner and for the purpose specified.

Third, the peculiar means of adjustment for the feed rollers a a a a by means of the xjections n v and v', set screws g, and sliding boxes m, all being arranged, constructed experating in the manner and for the purpose described.

Fourth, a wood-bending machine combining a heated cylinder or cylindrical forms supperby plates C C' C", or equivalent means, with their means of adjustment, as described. plied with fuel and heated in the manner described, and operated by a crank, or other equitlent means, substantially as and for the purpose specified.

No. 35,984.—John A. Bassett, of Salem, Mass.—Improvement in Apparatus for Certific Gas.—Patent dated July 29, 1862.—The burner with which the lamp is supplied. chambered and provided with a separate tip. From the top of the burner extending our through the outlet tube into the reservoir is a wick tube of braided lamp wicking, while stretched over the top of the burner, leaving an opening into which the tip F is driven we to render it gas-tight, thus confining the tube at the top of the burner and enclosing the part of the tip in a porous tube, through which the gas must pass to escape from the war. of the burner.

Claim.—The arrangement, substantially as described, of a gas carburctting burner with tube H of porcess or textile meterial connected with the tip F of the burner, and in connected with the tip F of the burner, and in connected with the tip F of the burner.

cation with a hydro-carper

No. 35,985.—J. N. BAUMANN, of Muscatine, Iowa.— emprovement in Cultivators.—Paris dated July 29, 1862.—Near the rear part of the frame are secured two inclined standards vided with shovels at their lower ends. The upper ends of these standards are connected. gether by a cross-bar, to the centre of which is bolted a double tree having a draught c. -

tached to each end extending to the front of the machine under pulleys. These pulleys are ted in standards and so arranged in slides as to admit of being adjusted higher or lower, d so that the line of draught and depth of penetration of the shovels can be readily regued by the operator. Near the centre of the frame is attached a cross-bar K, to which are anected bars provided with a series of horizontal rods for the purpose of protecting the plants on clods thrown up by the ploughs as well as breaking up the clods. This guard or clod sher is made adjustable in position by moving the cross-bar K, and the bars which hold a row may also be set at a greater or less distance apart, as required.

Claim.—First, the attaching of the double tree L to the cross-bar I of the standards G G in used in combination with the chains M M passing under adjustable pulleys N N, and a

niffletree P connected to each chain, substantially as and for the purpose set forth.

Second, the guard or clod crusher, consisting of the adjustable bars R R provided with rallel rods o, and attached to the bar Q, which is also adjustable and secured to the crossr K, as set forth.

No. 35,986.—M. S. BEACH, of Brooklyn, N. Y. —Improvement in Stereotype Plates.—Patent ted July 29, 1862.—The object of this invention is the production of a composite stereotype, which one part is a stereotype or electrotype of the finer portions made by any approved xess; and the other part is made from papier mache or other matrix, which receives and bodies in itself the first-named part. Use is also made of a movable and adjustable bed or ck made of type metal or any other similar, substantial, and yet yielding material, upon ich the stereotype is placed, and under which, instead of under the stereotype itself, the

inderlays" are adjusted.

Claim.—First, the composite stereotype G, produced in the manner substantially as described.

Second, the use of an elastic substance E in connexion with the stereotype plate D and the

wix C, substantially as and for the purpose herein shown and described.

Third, the yielding block or bed H, constructed and used substantially as described.

No. 35,987.—J. A. BERTOLA, of New York, N. Y. —Improved Analgamator for Collecting is and Silver.—Patent dated July 29, 1862.—This invention is designed as an improvement m a machine patented to the said Bertola, October 20, 1857, and it consists in the employat of separate mullers connected to a cross-bar by means of links, whereby each muller is wn along in the basin and readily accommodates itself to the material to be operated upon.

basins are made in the shape of a circular trough, and the shaft to which the crosshead nanected, is driven by gearing below the basin.

Asim.—The separate nullers ff attached by links i to the crosshead k, by which they are ved, in combination with the basin e, as and for the purposes specified.

uso, the basin e, formed in the manner specified, with the curved or trough-shaped botand fitted so that the shaft d passes up through the centre, as and for the purposes set

10. 30,988.-A. S. BLAKE, of Waterbury, Conn.-Improvement in Weight and Lever Atiment for Doors and Gates.—Patent dated July 29, 1862.—This invention consists in meeting a weight to a bent lever which is attached to the framing of the door or to the t of a gate, and connecting the said lever to the door or gate by means of a rod arranged such a manner that the weight will cause the door to close, and also keep it open when own entirely back.

Main.—The combination of the weight D, lever C, and rod E, applied to the door or gate perate as and for the purpose set forth.

10. 35,989.—C. C. Brand, of Norwich, Conn.—Improvement in Fire-arms.—Patent dated 17.29, 1862.—This invention consists in the combination of a breech-pin sliding in a recess the stock and the lock in such a manner that the two move together as the breech is opened closed, while the stock remains permanently connected with the barrel. The front end of breech-pin is guided in sliding towards and from the but of the barrel by means of a de bolt which projects into a socket formed in the breech block beneath the barrel. The rend of the breech-pin is maintained in position by means of a pair of guide screws, which vent the breech-pin from rising from the bottom plate of the recess. The trigger guard is med to the lower side of the breech-pin so as to guard the trigger in any position at all times.

Jaim.—The combination of a breech-pin sliding toward and from the but of the barrel in the state of the barrel in th ecess in the stock and a lock; the combination being such that the breech-pin and lock ve together in the recess of the stock, substantially as set forth.

11so, the combination of the said breech-pin and lock with a guide bolt, substantially as torth.

uso, the combination of the said breech-pin and lock with guide screws to guide the but he breech-pin, substantially as set forth.

Uso, the combination of the said breech-pin and lock with a trigger guard moving with m, substantially as set forth.

io. 35,990.—E. D. Burlingame, of Tecumseh, Mich.—Improvement in Threshing Ma-nes.—Patent dated July 29, 1862.—This invention consists in the application to an ordinary

clover huller and cleaner, of two bolts, the front end of one overlapping the rear end of the other, and operated by a pitman, by means of which a longitudinal reciprocating movement is imparted to them so as to cause them to act as a carrier for the straw.

Claim.—The arrangement of the double bolts inside a box so as to allow the surface of each bolt to be used as a carrier of straw, and separator of seed and chaff from straw, constructed

and operating as above described.

Also, the arrangement of double bolts inside a box so as to allow the surface of each to be used as a carrier of straw, and separator of seed and chaff from straw, constructed as operating as above described, in combination with a machine for threshing and separating clover seed, constructed and operating as above described.

No. 35,991.-M. E. BURLINGAME, of Willett, N. Y. - Improvement in Animal Fetters Patent dated July 29, 1862.—This invention consists of a ring hinged at one part, and a range of the part of the part, and a range of the part of the opposite part provided with projections which, when the ring is closed, form a cylinder. Updathis cylindrical part is fitted a ring D provided with recesses for the reception of projects. on the cylinder. A second ring G, attached to a swivel and fitting within the ring D, is previded with a spiral spring, which serves to keep the parts in place and the fetter locked

Claim.—The combination with the ring A of the rings C and D, spring G, and swa

E, constructed and operated substantially as described and set forth.

No. 35,992.—LORIN BURT, of the United States.—Improvement in the Manufactur of Figured Rubber Cloth.—Patent dated July 29, 1862.—This invention consists in passing the contract of the contra cloth between two rollers, from one of which it receives a coating of rubber upon one as whence it passes between an engraved or printing cylinder and a plain one, upon which latter is laid a thin coating of gum at its junction with the printing cylinder, by which was a thin coating is brought upon both sides of the cloth and is made to adhere thereto is at figure determined by the pattern upon the engraved cylinder. The superfluous gun impressed by the design is removed from the cloth by passing it over a cylinder have; slight coating of rubber.

Claim.—Impressing patterns in caoutchouc upon both sides of cloth, substantially is

manner and for the purpose set forth.

Also, removing the superfluous gum from the cloth by means of rollers, or their equivalent as and for the purpose described.

No. 35,993.—Nelson Cross, of New York, N.Y.—Improved Folding Chair.—Predated July 29, 1862.—This chair is formed of a series of slats composing the base, seat. back, the parts being connected or jointed in such a manner as to admit of the chair back Claim.—The combination and arrangement of the seat and back with the movable or

arms and the arms rod, substantially as and for the purpose specified.

No. 35,994. -W. J. DODGE, of Kasong, N. Y. -Improvement in Car Couplings. -Pr dated July 29, 1862. -The combined lock or guard and connecting lever are formed in piece and pivoted towards the inner part of the bumper, so that when the guard is raised in lever is thrown against the puping and raises it off from a pin upon the bumper, the set being so arranged as to be self-coupling when required, and to admit of their ready unrous. and disconnexion when a leading car runs off the track.

Claim.—First, the combination of the lock a and connecting lever e, for the purpose

substantially in the manner set forth.

Second, the combination of the coupling c and governing clevis c, substantially as at 1. the purposes described.

Third, combining for joint action, as described, the coupling c, clevis b, lever c, and gaza, for the purposes substantially as specified.

Fourth, the arrangement of parts, as described, for the purpose of changing the countries from a self-acting arrangement to a fixed connexion, substantially as set forth

No. 35,995.—J. S. GILMAN, of Tecumseh, Mich.—Improved Clasp for Herness Thes.—Patent dated July 29, 1862.—This invention consists in the employment of an oblong median box roughened on the inside, and through which the tug strap passes. A roughened me wedge is also placed within the box in contact with the strap. Through the front side of wedge is also placed within the box in contact with the strap. Through the front side of box is inserted a screw which bears upon the wedge and serves to keep the tug in place. admit of its ready adjustment.

Claim.—The application of the screw pressure to the holding of the tag or large strap and for harness, and more readily adjusting the same by means of the screw, metallic >: and wedge, as shown in the above specifications and the accompanying drawings, or is #

other form substantially producing the same results.

No. 35,996 .- J. B. DOOLITTLE, of Seymour, Conn. - Improvement on Magazine Fire-arms Patent dated July 29, 1862.—This invention consists in a construction of and mode of exp ting a series of chambers by which cartridges are received from one or more magazines in \dot{z} stock of the fire-arm and conveyed to a point epposite the barrel to be fed.

Reference to the description and drawings will be necessary for an understanding of the vention.

Claim.—First, the combination in a fire-arm. in a manner substantially as herein described, fa cylinder constructed with a series of half chambers c c, and the sliding yoke E constructed with a single half chamber b.

Second, combining the yoke E and the dog G, which produces the rotation of the cylinder y means of a lever H, applied substantially as herein specified, with its fulcrum variable, in a manner set forth.

Third, the combination of the sliding tooth 13 in the yoke, and the fixed tooth 14 on the ame, substantially as and for the purpose herein specified.

Fourth, the combination of the radial grooves or notches o o in the front end of the cyliner and pin m, working through the front of the yoke substantially as herein described for the

urpose of locking the cylinder. Figh, the hook ℓ' , applied within the opening a of the frame A, in combination with the

ylinder C, and operated by the yoke E, substantially as herein specified.

No. 35,997.—J. A. Edick, of Newfane, N. Y.—Improved Machine for Sawing Wood.—atent dated July 29, 1862.—This machine is composed of a framing having at the front end guide standard I, in which is fitted a slide having a cleft or space of a sufficient size for the ack of the saw to fit in, and serves by its weight to keep the saw in place as the latter cuts to the log. Near this standard is another standard G, having a slot provided with sliding locks, in which the saw shank plays, and is properly guided. The position of the blocks asy be adjusted higher or lower by means of pins. To the standard G is secured a cord exmding to the rear end of the machine over the fly-wheel where it is attached to the upper and or a brake bearing upon the wheel, by which means the motion of the wheel, and conseverably of the saw, can be regulated at the will of the attendant. Upon one side of the front all of the machine is a feeding roller, and at the other side, upon a bed or cross piece, is a suge, consisting of a shank pivoted at its centre in any one of a set of adjusting holes in the end. To the outer end of this shank is hinged an arm extending forward to about the centre if the end of the log. To the inner end of the shank of the gauge is attached a rod, secured a sliding bar extending back, and attached at its rear end to a lever, which is operated by sliding coupling which engages with a coupling upon a shaft deriving motion from the main main by this arrangement the feed motion may be readily thrown in or out of operation by a attendant.

Claim.—'I he adjustable jointed gauge T, consisting of the shank u, and hinged arm t, when he same is connected with the coupling c' in such a manner that the latter is uncoupled by he action of the log in feeding; and so that the said hinged arm may be turned back for the moval of the cut, substantially as herein described.

Also, the removable guide standard I, provided with the supporting slide M, the brake O ming on the fly-wheel, and operated by the cord N and the standard G, having sliding locks II II, and pins for adjusting the saw; the whole arranged so that one attendant can awage the same without changing his position, and operating substantially as and for the approx herein set forth.

No. 25, 293.—BERNHARD FRANKE, of New York, N. Y.—Improvement in Revolving Ordtice. — Patent dated July 29, 1862.—The separate breeches of the rotating cylinder are held thace by means of a stop, the lower part of which is provided with a rack engaging with a from forming a part of the periphery of a shaft, and upon another part of the periphery is a ager y, which enters a notch in the breech piece, and moves the same into or out of the breech modern as the shaft is turned. A circular plate I is secured to the top of the breech wheel for ac purpose of covering all the nipples or vents except the one belonging to the breech which as been inserted in the barrel.

Claim.—It isst, the combination of the breech and the stop o with the finger y and the rack ad pinion r s, operating substantially in the manner and for the purpose set forth.

second, the combination of the plate I with the breeches and nipples, in the manner and or the purpose described.

No 35,999.—G. W. B. GEDNEY, of New York, N. Y.—Improvement in Revolving Fire-arms.—arout dated July 29, 1862.—In the frame of the arm behind the cylinder is inserted, without they screwed in, a single cone that fits closely against the rear of the cylinder, so that by moving the latter the cone can be readily slipped out of its seat at any time. Immediately it if the cylinder are connected to the frame, two springs, the ends of which are turned so as take into radial grooves cut in the rear of the cylinder, and serve to press the cylinder also to form a cut-off between the chamber to be exploded and the adjacent one. The nupon which the cylinder is revolved is made hollow, so as to receive the priming. Through pin is passed a plunger which, by means of an enclosed spring, forces the priming up into oper position where a cutter and carrier, actuated by the hammer, takes a slice or portion of raises it up to the path of the hammer, by which it is carried against the nipple and then

exploded. The priming is inserted through an opening in the frame into an opening in the plunger when it is carried back by the latter into the chamber through which the cutter a

Claim.—First, setting the nipple loosely in the frame, and without connecting it permanently

with any part of the arm, substantially as and for the purpose set forth.

Second, the double circular springs in rear of the cylinder, made as described, and attached

to the frame as and for the purpose set forth.

Third, cutting off the priming at right angles with the position of the primer in 🖰 hollow cylinder pin, and carrying the same to the front of the hammer to be caught by its cup of the hammer face, under an arrangement of parts substantially such as set forth.

Fourth, in combination with a hollow cylinder pin for containing the priming, the oper 15 j o, for the purpose of inserting the priming without withdrawing the cylinder pin or plur-

substantially as described.

Fifth, the spring, or its equivalent, on the under side of the barrel, for the purpose of ker :: the cylinder pin and plunger in place, and allowing the latter to be withdrawn independent of the former, or both at once, substantially as set forth.

No. 36,000.—S. F. GOLD, of Brooklyn, N. Y., and W. A. FOSKETT, of Meriden, Conn.—Iprovement in Steam-heating apparatus.—Patent dated July 29, 1862.—The heating purchis apparatus is composed of a series of shallow chambers placed upon their edges with the state of the s united throughout by single joints surrounding the steam openings. The outer surlected these chambers are studded with conical projections arranged in rows, so that one row said be opposite the spaces between the adjacent rows. The sectional chambers are construct with central openings on their opposite faces for the admission of steam, each chamber of sisting of a central passage, and lateral wings issuing therefrom. Each wing has a bor >2 tal diaphragm D extending from the central opening to near the extremity of the war: the purpose of providing a circulation of steam through the chamber.

Claim.—Constructing the steam chambers in sections so united as to leave air characteristics. between the adjacent sections, the surfaces of the sections constituting the sides of these than nels being studded with regularly curved projections, arranged in rows, and breaking in the direction opposed to the current, substantially as and for the purposes set forth

Also, connecting the aforesaid flat sections centrally at the steam passage, when it radiator is made up of a main steam channel and lateral circulating passages, subsisting as described.

Also, in combination with the central opening d the diaphragms D in the wings, $\omega \omega$ for the purposes set forth.

No. 36,001.—Thomas Goodrem and Charles Jackson, of Providence, R. I - ITEM ment in Rotating Projectiles from Smooth-bored Ordnance.—Patent dated July 29, 1-2-11 projectile is provided with friction rollers arranged so as to protrude through slots in ... ! from a cavity in its interior, so that the peripheries of the rollers will keep in contact bore of the gun, and their planes of rotation will be oblique to the axis of the bore and the projectile. In the cavity of the projectile are springs or elastic beds arranged in Fact to the bearings of the rollers, so as to hold them with sufficient force against the bearings that in rolling in contact therewith they may run in a spiral direction, and cause the proto receive a rotary motion on its axis when discharged.

Claim.—First, having the rollers arranged to rotate obliquely in respect to the axis. projectile, substantially as herein shown and described, so that the projectile as us

through the gun will be caused to rotate, all as set forth.

Second, the combination of the rollers C with the levers B and follower D, substante:

herein shown and described.

Third, the elastic beds h, in combination with the rollers C and follower D, as here: 🕹 🤻 and described.

No. 36,002.-W. H. GWYNNE, of White Plains, N. Y.-Improvement in the Manufacture? Illuminating Gas.—Patent dated July 29, 1862.—This invention consists in introduction heated retort filled with coal, wood, or other material, a stream of petroleum for the purpimproving the quality of the gas, and also for producing a rich gas from the poors: of coal or wood, or other like material used in the manufacture of illuminating gas.

Claim.—Introducing into a retort containing coal, wood, or other material from wi can be manufactured, a stream of petroleum or other liquid hydro-carbons, substant . -

the manner and for the purpose described.

No. 36,003.—H. M. HALL, of Danby, Vt.—Improvement in Shard Pins.—Patcal July 29, 1862.—This device is formed of a hook-shaped pin with a straight shank, where

vided at its end with a button or head.

Claim.—The hook in combination with the head, substantially as described, for the pure herein set forth.

No. 36,004.—D. F. HUMPHREY, of Saline, Mich.—Improvement in Pleaghs.—" are dated July 29, 1862.—The beam of the plough is of tubular form, and near its end is parent

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he draught-beam. At the front end of the tubular beam is arranged a slotted plate, through rhich the beam passes, and by means of a slide and bolt, the front end of the beam is allowed vertical adjustment whereby the depth of penetration of the plough may be adjusted. The front standard of the land side is attached to the beam by means of a screw fitted in is upper side and secured by a nut placed in a recess in the beam. The rear standard is rovided with a slotted horizontal plate through which and a lip on the rear end of the beam bolt passes, by which means the rear standard may be moved laterally and adjusted in or ut of line with the draught-beam, so as to give the plough more or less land as may be

Claim.—First, the draught-rod B fitted in the tubular beam A and passing through the slot I in the front end thereof when arranged with the slide C and bolt c, substantially as and

or the purpose set forth.

Second, attaching the standards D F of the land side H to the beam A by means of the crew or bolt E and the bolt h, the former being fitted directly in the beam A, and the latter assing through an oblong slot g in the plate G of the standard F, and through a lip i at the ack end of the beam, substantially as and for the purpose set forth.

No. 36,005.—Rodney Hunt and J. H. Waite, of Orange, Mass.—Improvement in Machinery for Fulling Cloth.—Patent dated July 29, 1862.—Within a case are arranged two main horizontal squeezing rollers, one directly over the other, and in the rear of the main rollers are arranged one or more sets of smaller vertical rollers. At one side of the main case is affixed a box or eistern containing liquid soap, and having a pipe leading from it and made to open directly through the upper part of a curved folding passage arranged on the bottom of the main case. From the upper part of this folding passage is an inclined plane Lextending to the curved surface of the lower main rollers and acting as a scraper to detach the cloth from the roller. A similar scraper M is applied to the upper roller. In front of the bite of the main rollers is a packing conduit, open at its front and rear ends, within which are placed two spring jaws, hinged at their rear ends to the opposite sides of the conduit, heir front ends being in contact with each other.

Claim.—The combination of a soaping or liquoring cistern or apparatus separate from the main folding space K, with the said folding space and the two sets of main and auxiliary squeeze rollers A B F G.

Also, the arrangement of the two cloth guides or conducting partitions L M with the main squeeze rollers A B, their folding space K, spring jaws O O', and packing conduit N, when sembined with an auxiliary set of squeeze rollers or the same and a scaping or liquoring apparatus, and arranged in the case as explained.

Also, the arrangement of a pair of spring jaws O' O' and their packing conduit N, with he main and auxiliary sets of squeeze rollers, arranged in a case E, and so as to operate as

No. 35,006.—P. H. JACKSON, of New York, N. Y.—Improved Vertical Windlasses.—Patint dated July 29, 1862.—This invention is designed as an improvement upon a windlass mented to the said Jackson on April 1, 1852, and it consists in a method of stopping the thain-harrel so as to check the chain as given out or hold it rigidly when necessary. Upon he upper plate of the box which contains the gear-wheel is secured a lug, and on the side of the chain-wheel opposite the lug is a friction-clamp k, set so as to slide in a seat formed is he top of the said box. In the clamp k is a mortise in which is fitted an eccentric provided with a lever handle, by which the clamp may be pressed tightly against the edge of the chain-

Claim.—The friction-clamp k, actuated by the eccentric o, in combination with the lug i, o clamp and arrest the movement of the wheel f, substantially as and for the purposes

Also, the overhanging end 5 in combination with the clamp k, wheel f, and box a, as specified, to press the said chain-wheel to the top of the box a, and increase the friction, as sectorth.

Also, the pins 2 introduced through the base of the capstan e and keys 1, in combination with the said heaver f, to hold said keys in place, as set forth.

No. 36,007.—JOSEPH JONES, of Utica, N. Y.—Improvement in Railroad Car Brakes.-Patent dated July 29, 1862.—The brake-rubbers are made to operate upon the upper part of be wheel, and are secured to the ends of bent shafts b which are hung in bearings upon the a is of thorough springs fastened at their centres to the truck frame. Underneath the truck nls of thorough springs fastened at their centres to the truck frame. Underneath the truck came is a yoke suspended at its opposite ends to the bent shafts f. The brakes are operated ion a central point by means of a cam lever bearing upon the yoke f in connexion with a vind ass and chain.

Claim.—First, the combination of the thorough springs d with the bent shafts b, connected and operating substantially in the manner and for the purpose herein described.

 \sim and, the central yoke f and its connexions with the bent shaft b, as described.

Third, the central action at W, by means of the can and lever i, operating on the yoke f, it a point central to the four wheels of the truck, by means of which all the rubbers are rought down upon the wheels by a simultaneous and perpendicular pressure.

The whole being arranged and operating substantially in the manner herein set for OOGC

No. 36,008.—HENRI J. KRITZER, of Albion, Mich.—Improvement in Hot-Air Engines.— Patent dated July 29, 1862.—The nature and object of this invention will be mainly understood from the claim and engraving. To the bottom of the piston are attached sprinking tubes formed of light metal with perforated sides, so that at each descent of the piston it w_ be filled with sufficient water from the lower part of the cylinder D2 to continue the above without interruption.

Claim.—First, the combined arrangement, substantially as described, of the pair of or nected heating and condensing cylinders D' D*, condensing float-pistons J J, lifting: M M, and water-ports F F for the purpose of interposing a body of cold water or other ... able fluid between the condensing and working piston, to lubricate the working parts. tate condensation, and to allow the air-chambers to be permanently charged, without rat i loss by leakage.

Second, the use of the sprinkling troughs L L in combination with the arrangement are said, substantially as and for the purpose specified.

No. 36,009.—W. J. LEMUTH, of Greencastle, Ind.—Improvement in Balancing Mistones.—Patent dated July 29, 1862.—This invention consists in placing a number of size, weights in recesses in the back of the upper stone or runner and in line with the top are spindle on which the stone rests, whereby the latter may be perfectly balanced while in a tion and under any rate of speed. The weights are adjusted by means of screws pass; through them and through the hoop of the stone.

Claim.—The employment or use of adjustable weights F fitted in or applied to the ruse A of a pair of millstones, in such a manuer as to be capable of being adjusted honzons. nearer to or further from the centre of the runner, and in line with the top of the spindle

the same, as and for the purpose herein set forth.

No. 36,010.—W. A. LIGHTHALL, of New York, N. Y.—Improved Combined Heater, of denser and Filter.—Patent dated July 29, 1862.—The object of this invention is to take potable water from salt or other impotable water, and it consists of an apparatus comp - id a filter placed in the lower portion, and filled with charcoal for the purpose of about 4 from the condensed water run into it its empyreumatic qualities. Above the filter is it a tank which holds the condensed water, and over that is the condenser. Attached to the top of the condenser is a heater containing a series of pipes through which the feed-water passed from the feed-pump to the boiler, and into which steam is exhausted from the feedcooling, and supply pumps.

Claim.—The combination of the tank N, filter B, condenser F, and heater G, when ranged in relation to each other in the manner and for the purpose herein set forth.

No 36,011.-WILLIAM MATTHEWS, of New York, N. Y.-Improvement in Photographia Albums.—Patent dated July 29, 1862.—This invention consists in the employment ... frame in which the pictures are inserted, and which frame can be readily inserted with a withdrawn from the leaves of an album.

Claim.—So constructing a photographic frame, such as described, that it may be w. 2-

drawn from the leaf of the album to insert the picture, as described.

Second, the photographic frame in combination with the album leaf, as in the EXE specified.

No. 36,012.—T. W. McFarland, of Ottawa, Ill.—Improved Evaporator for Sacdens Juices.—Patent dated July 29, 1862.—This invention consists in the construction of the co evaporator for saccharine juices, so arranged as to be readily adapted to any of the trajenow in use. Below the pan is an open flue, communicating directly with the charts and under the fine is a sliding tube or flexible joint so arranged as to admit of no is cassassily adjusted to the positions of the oscillating pan. To the front of the pan is second strainer and secured to the trainer and secured to the trainer and secured to the trainer. conductor provided at its outer end with a bag-shaped strainer of a finer quality. A -1 ? is so arranged in connexion with the flues as to conduct the volume of heat directly inchimney when necessary.

Claim.—First, in combination with a fire-pan, the employment or use of a par (? structed substantially as is set forth, and for the purpose substantially as described.

Second, in combination with an oscillating fire-pan, or a pan having an oscillating as a movable or sliding joint, as at ch, that the motion of the one may conform to the sat ary position of the other, substantially as set forth, and for the purposes as described.

Third, the arrangement of the strainers ef, in combination with the conductor d, and dbox or pan to which they are attached, substantially as set forth, and for the purpose are described.

Fourth, the arrangement of the damper b in combination with the flexible tubes characteristics. flues a a a, and the open flue I, substantially as set forth, and for the purpose herein

No. 36,013.—James McKenzie and J. C. Millar, of Troy, N. Y.—Improvement is fulling Mills.—Patent dated July 29, 1862.—The nature and object of this invention with the control of the cont understood from the claim.

Claim.—First, the fulling plates F and F', when combined one with the other, and having, respectively, reciprocating motions in opposite directions, the uppermost plate having a variable pressure or frictional contact on the cloth's surface, as herein described, both plates being arranged and operating substantially in the manner and for the purposes as herein set forth and shown.

Second, in combination with the fulling plates F and F', the feed and drawing rollers u and v and the series of fulling rollers d d and d' d', the frame carrying the rollers d' d' having a reciprocating motion given to it in horizontal directions, and being adjustable

retically as described, the whole arranged and operating in combination with the fulling plates, substantially in the manner and for the purposes as herein specified and shown.

Third, arranging and mounting the uppermost fulling plate F and the lower series of fulling rollers d' d' in frames that may be adjusted vertically in or upon guides, so that the contact or pressure of the plate and rollers may be duly regulated to the amount necessary, by means of levers and weights, in the manner and for the purposes as herein

specified.

No. 36,014.—J. H. MEISSNER, of Jersey City, N. J.—Improvement in Bolts.—Patent dated July 29, 1862.—This invention consists in making the body or shank of the bolt of a number of wires, so twisted or placed together that while the bolt shall have all the requisite tensible strength, it shall also possess a certain degree of elasticity, for the purpose of obviating the injurious effects caused by the impact of heavy projectiles upon the plate.

Claim.—The method of constructing a screw bolt of wire in such a manner that with a solid screw and proper head the shank or intermediate portion shall retain a certain degree of elasticity not possessed by an ordinary solid bolt.

No. 36,015.—G. P. MERRIAM, of Lynn, Mass.—Improvement in Machines for Forming, Smoothing, and Polishing the Heels of Boots and Shoes.—Patent dated July 29, 1862.—This invention consists in shaping and dressing the heels of boots and shoes in pairs, after they have been attached to the boot or shoe, by means of a rotating cutter or polisher, with which is connected a guide ring for receiving a guide plate which is clamped between the two heels of a pair of boots or shoes held sole to sole Pattern plates are also placed on the bottoms of the heels, not to which the cutter works so as to leave when removed the heel with a of the beels, up to which the cutter works, so as to leave, when removed, the heel with a well-defined and finished shape.

Claim.—Shaping and dressing the heels of boots and shoes, in pairs, by means of a revolving cutter or polisher, with its grooved ring, in combination with patterns N, secured to the heels, and the guide plate O, operating substantially as described.

No. 36,016.—C. A. MURRAY, of Pittsburg, Pa.—Improvement in Piston Packing.—Patent dated July 29, 1862.—Upon the interior of the ordinary packing rings are arranged four segmental rings, which are connected by means of springs with the sections of a conical socket in such a manner that by the expansion of the said socket the segmental rings are made to bear upon the inner surface of the packing rings with a yielding pressure, thereby keeping the said rings tight without injury to the inner surface of the cylinder. At the head of the server which server to consider the conic furnitum though the contract of the server which servers to consider the conic furnitum though the contract of the server which servers to consider the conic furnitum though the contract of the server which servers to consider the conic furnitum though the contract of the server which servers to consider the conic furnitum though the contract of the server which servers to consider the conic furnitum though the servers to contract the servers the servers the servers the servers the servers the servers the servers that the servers the servers the ser of the screw which serves to operate the conic frustum, through the entrance of which the segmental rings are expanded, is arranged a collar in such a manner as to bear steam-tight against the inner surface of a disk that is attached by means of screws to the follower, and serves to keep the collar in its place.

Claim. -First, the arrangement of the springs F, in combination with the split hub G provided with the conical socket a, segmental rings E, and packing rings D, all constructed

and operating substantially as and for the purpose described.

Second, the arrangement of the collar d on the head of the screw I, in combination with

the disk e, as and for the purpose set forth.

-CYRUS NEWHALL, of Hinsdale, N. H.-Improvement in Harvesters .- Patent dated July 29, 1862.—Attached to the main frame is a frame F formed of two rods connected by a cross-bar, and extending down between the two lower arms of the four which are attached to a projecting end of the axle. These arms are each provided with a roller at its end, upon which is placed a rim C', constituting one of the wheels of the axle. To the lower end of the frame F is attached by joints a shoe, to which is connected a finger-bar so arranged as to a lmit of being elevated to a vertical position when the machine is moved from place to Flace. By this arrangement the sickle will rise and fall simultaneously with the wheels, so as to conform to the irregularities of the surface of the ground, and thereby insure a uniform cut

Claim.—The arrangement of the frame F, constructed as shown, with the rim C', shoe G, and the main frame A, in the manner herein shown and described.

No. 36,018.—CHARLES OHLEMACHER, of Aurora, Ill.—Improvement in Springs.to Car Trucks.—Patent dated July 29, 1862.—Placed loosely between two cross-bars at the centre of the truck is a sill or centre beam having two elliptical springs attached to its under side. These springs are connected at their lower part to a cross-bar, the ends of which are provided with journals fitted in oblong slots in the adjoining ends of two levers E', so as to form a joint for the same. These levers are attached to cross-bars, the ends of which are fitted in the lower part of pendants suspended from cross-bars of the truck. At each side of the truck are also two levers F', fulcrumed in pendants attached to the truck frame, the outer ends of which bear upon the boxes of the wheel axles, by which means the weight of the car will be transmitted equally to the springs when the car is oscillating from one side to the other.

Claim.—The combination of one system of springs D with a sill or centre beam C, and three systems of levers E' E' F F, arranged and applied to the car truck, to operate as and

for the purpose herein set forth.

No. 36,019.—J. S. PADON, of Summerfield, Ill.—Improvement in Cultivators.—Patent dated July 29, 1862.—Underneath the front end of the main frame is pivoted a frame C. which is connected by a link to a lover, pivoted to the main frame, and by means of which the plough is rendered adjustable to or from the ground. The beam F, to which the plough and cultivator are attached, is pivoted to the rear end of the adjustable frame C, and admis of being turned so as to use either the plough or cultivator end, as may be desired.

Cluim.—The arrangement of the adjustable frames C, and beams F and G, in respect to each and under the main trame B, when constructed and operated in the manner described

and shown.

No. 36,020.—A. G. Parker, of North Gage, N. Y.—Improvement in Corn Planter.—Patent dated July 29, 1862.—This machine is supported upon three wheels, the two forward ones of which are placed loosely upon a revolving shaft, and serve to mark the rows in which the seed is dropped. Connected with these wheels are drag shafts, having an orifice near their centres, into which are fitted spouts which conduct the corn from the hopper to the ground, the drag shafts covering the corn as it is dropped into the ground. The rear part of the machine is supported by a single wheel provided with pins, projecting from one side of the rim. These pins, as the wheel rotates, actuate a lever which, by means of two intermediate levers connecting with a rock shaft, serves to operate slides in the lower part of the hopper, so as to cause the corn to be dropped in separate hills.

Claim.—First, the combination of the adjustable furrow wheels D, and drag bars G, with the movable seed boxes A, when constructed and arranged in the manner and for the purpose

set forth.

Second, the combination of the wheel C, provided with the movable pins y, with the lever z 2 3, rock shaft 4, and movable arms S, when the whole are constructed and arranged in the manner and for the purpose set forth.

No. 36,021.—J. W. PARMENTER, of New York, N. Y.—Improvement in Trunks.—Patent dated July 29, 1862.—This invention consists in providing a common travelling trunk with a series of drawers having folding bottoms, and also having a hinged removable front, all a arranged that any one of the drawers may be used separately, or that all or any one of the drawers may have its bottom folded so that two or more apartments may be thrown into one of the drawers may be the proposed of a series of drawers or one or more apartments may be the consequence of the series of drawers or one or the partment of the series of drawers or one or one of the series of drawers or one of the series of the series of drawers or one of the series

Claim.—A trunk composed of a series of drawers, or one or more, placed within a su'table case, and provided with folding bottoms, substantially as and for the purpose specified.

No. 36,022.—D. C. PAYNE, of Elkhart, Ind.—Improvement in Grubbing Machines.—Patent dated July 29, 1862.—This invention consists in an arrangement of devices for automatically locking and unlocking the wheels of the machine at the proper moment, by which the wheels are caused, in connexion with the axle, to form the fulcrum of the lever, and also to allow the machine to be used for transporting the grub or stump from the field.

the machine to be used for transporting the grub or stump from the field.

Claim.—The lever A, lock bar E, hooked arm a, and weight F with the annular toothed rims D D', wheels C' C', and crooked axle B, when combined and arranged to operate in the

manner and for the purpose set forth.

No. 36,023.—J. C. PHILBROOK, of East Sanbornton, N. H.—Improvement in Apparates for Filling Sucks with Flour.—Patent dated July 29, 1862.—This invention consists in the employment of a hopper provided with hooks at its under side for the attachment of the bags and supported by means of journals at its ends to a folding stand, the object being to obtain an apparatus that can be folded in a compact form when not in use, or for transportation.

Ctaim.—The said portable folding bag, supporting and filling apparatus, consisting of the hopper and two sets of legs, as arranged and applied in manner and so as to operate together, and for the purpose applications of the set of the purpose applications.

and for the purpose substantially as hereinbefore specified.

No. 36,024.—J. A. PIMENTEL and W. H. SHUTE, of New York, N. Y.—Improvement is Locks.—Patent dated July 29, 1862.—This invention consists in the employment of a belt guard arranged with a division plate in the lock and the lock bolt, and using in connexion with the said parts a double key. Within the lock are placed apring catches arranged so we hold a pick or false key which may be introduced into the lock for the purpose of unlocking it illegitimately.

Claim. -First, the slide or guard D, in combination with the bolt B and central partition

plate C, arranged substantially as and for the purpose set forth.

Second, the spring catches or stops m p, arranged to operate as and for the purpose specified. Third, the double key K, or one formed of two parts ef, provided each with a bit gf, and aranged as shown, to turn independently of each other, when said key is used in connexion with a lock provided with a bolt B, slide or guard D, and central plate C, for the purpose set forth.

No. 36,025.—J. H Post, of Paterson, N. J.—Improved Sawing, Boring, Moulding, and Planing Machine.—Patent dated July 29, 1862.—The nature and object of this invention are

explained by the claim.

Claim.—The combination with the mandrel or shaft, upon which the cutter head is hung, and with the cutter head, of the right and left hand screw-threads and corresponding nuts, by which the cutter head may be adjusted to the proper position on the shaft, and also held in position by the screws and nuts, the parts being so constructed and arranged that the resistance of the material will have a tendency to decrease the distance between them by means of the friction of the cutter head upon them, and thus secure the cutter head more firmly in position, and also thereby avoiding the necessity of jam nuts or other appliances to secure the nuts which hold the cutter head in adjustment from displacement, substantially as set forth.

No. 36,026.—H. T. PRATT, of Fitchburg, Mass.—Improved Seats and Backs for Chairs.—Patent dated July 29, 1862.—This invention consists of a thin sheet of wood in which is cut a number of slots so as to form a series of thin narrow slats, and attaching the same to the frame of the back or seat of a chair.

Claim.—The employment or use of a thin sheet B of wood, provided with narrow slots a, in combination with the frame of a seat or back of a chair or other similar article, substantially as and for the purpose herein shown and described.

No. 36,027 .- B. D. REED, of Independence, Iowa. - Improved Fastening for Securing Truces to Whiffletrees .- Putent dated July 29, 1862 .- This invention consists in attaching to the trace loop a metal tube, within which is placed a pin C provided with a spiral spring. The narrow end of the trace loop is of sufficient size to receive the end of an arm or rod which is connected to the end of the whiffletree, and into this arm the pin C is forced by the spiral spring, by which it is retained in the loop. By withdrawing the pin C the parts become at once disconnected.

Claim.—As an improved article of manufacture, a trace loop or cock-eye, provided with a tube B and spring C, and otherwise made as herein shown and described.

No. 36,028.—COLEMAN SELLERS, of Philadelphia, Ps.—Machine for Rolling Photographic Pictures, &c.—Patent dated July 29, 1862.—In this device the ordinary housing or supporting frame of the pair of rolls is dispensed with, and the lower roll is made so large that only a portion of its circumference is used in the rolling operation. The lower roll is also made stationary, and the upper roll is caused to pass around that portion of it designed for use. The lever or crank is used as a support for the upper roll in place of the housing generally employed for that purpose.

Claim.—The rotation of the polishing roll or its equivalent about the large roll or its equivalent, substantially in the manner and for the purpose specified.

No. 36,029.—SILAS SHEPARD, of Taunton, Mass.—Improvement in Looms.—Patent dated July 29, 1862.—Upon the yarn beam, which is arranged in the usual manner, is affixed a spur gear engaging with a smaller spur gear upon a horizontal shaft K, which works in a fixed bearing secured to the side framing of the loom, the said shaft carrying outside of the framing, a wheel L provided with teeth, which, in connexion with a double detent lever, constitutes an escapement mechanism to prevent the said wheel from moving more than one touth at a time. C represents a vibrating whip roll supported by two arms of a rock shaft, which is arranged in fixed bearings above the yarn beam. Near one end of this arm is a three-armed lever, one arm E of which has suspended from it a weight sufficient to counterbelance the weight of the whip roll and the downward pressure produced on the roll by the tension of the warp between the yarn beam and the take-up. From the arm F of the said lever is suspended a rod I which works through a guide in the framing. The third arm G is fitted with a screw s which comes in contact with a fixed stop on the framing, and serves to limit the height to which the weight is allowed to raise the whip roll. By adjusting this screw, the height of the weight may be regulated.

Claim.—The combination with the escapement mechanism L M and the yarn beam B of the shank K, gear J, three-armed weighted adjustable lever E F G, rock shaft D, the adjuster a, rod P, and whip roll C, in the manner and for the purpose herein shown and

described.

No. 36,030.—David Shive, of Philadelphia, Pa.—Improved Egg Beater.—Patent dated July 29, 1862.—This invention relates to a device in which two agitators are arranged to rotate one within the other in opposite directions, and it consists in the employment of a pair

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of slender cylinders or rolls, arranged parallel with each other in a suitable frame, and in connexion with the said agitators, so that the rotary motion of the latter may be effected it simply rolling or rubbing the cylinders between the hands.

Claim.—Operating the agitators C and D, or their equivalents, by means of cylinder B B', arranged to be rolled or lubbed together between one's hands, substantially in the Land

ner described.

No 36,031.—CIRISTIAN SHOLL, of Mount Joy, Pa.—Improved Sash Fastener.—Pertudated July 29, 1852.—Within a recess in the window frame is fitted a metallic plate product. with a wheel or roller. Passing through the plate at each end and into the frame are sesurrounded with coiled springs which press against the plate and serve to retain the wind frame in an elevated posotion at any desired height.

Claim.—The arrangement of the plate C, rollers a, screws x x, and spring m m, u-d : the box in the frame, and in combination with the grooved sash, as and for the pages

specified.

No. 36,032.—AARON SHUTE, of Flushing, N. Y.—Improvement in Fire Escapes.—Parts dated July 29, 1862.—This invention is designed as an improvement upon an appara patented to the said Shute, November 12, 1861, and consists in the employment of a the consists in the employment of the consists in the employment of the consists in the employment of the consists in the consists in the employment of the consists in the employment of the consists in the employment of the consists in the employment of the consists in the employment of the consists in the consists in the employment of the consists in the consists in the employment of the consists in the consists in the c ladder attached to a reel placed within a box, which latter may be secured to the root of a building near the eaves. At the front end of the box is a door which is kept closed by next of hooks, and by means of bars actuated by levers and a rod in connexion with spring 🛫 door is opened when necessary, and the end of the flexible ladder caused to escape from the box and falling to the ground is there secured.

Claim.—The flexible ladder F, in combination with the reel D and box A provided with

the door C, all arranged to operate as and for the purpose herein set forth.

Further, the particular manner of closing the door C, securing it in a closed state, and releasing it, to wit: by means of the hooks h h attached to the bars K actuated through the medium of the arms j, levers L, rod M, and spring or springs N, in connexion with the crosbar G at the end of the flexible ladder F, as herein described.

No. 36,033.—W. W. SIMRELL, of Great Bend, Pa.—Improvement in Azle Boxes for Rei-road Cars.—Patent dated July 29, 1862.—This invention will be understood by reference to

the claim and engraving.

Claim.—The combination of the oil cup C with holes o' o" o", with the support B combination of the oil cup C with holes o' o" o". journal J with holes h h, when used for the purposes of lubricating the journal J when 💝 rounded by the space p p, widened at the sides of said journal and contracted under \cong same to keep the packing from shrinking away from the journal, in manner and for \cong purpose herein described.

No. 36,034.—Daniel Snell, of Little Falls, N. Y.—Improvement in Harvesters.—Parel dated July 29, 1862.—Connected by a shaft to the main driving wheel is a small wheil which actuates the cutters and is provided with three sets or pairs of spuds or pins with take into slots in a yoke as the wheel rotates, in such a manner as to give a greater range of vibration or stroke to the cutters than when one pin only is used. To the shaft of the state wheel is hung at one end an extension bar, and to the opposite or grain side of the same states. secured through the intervention of a shoe a finger-bar which carries the fingers or guardic through which the cutter vibrates.

Claim.—First, the combination of the wheel H and yoke I, with their pins and slots in

vibrating the cutters, substantially in the manner and for the purpose set forth.

Also, in combination with the finger-bar, its alternate projections and openings, the gurb I made as described, with the cutter-bar and cutter resting thereon, in manner and for the purpose set forth.

No. 36,035.—E. S. SNELL, of North Bridgwater, Mass.—Improved Boot Heel Same—Patent dated July 29, 1862.—This invention consists in a method of attaching the blads the stock so that it can be readily adjusted. The throat guard C has at each end a benian which fits in a recess in the under side of the stock, and is held in place by a screw passes through a slot in each end of the guard from the under side of the stock, which permit the guard to be moved towards and from the blade to adjust the opening between the guard at edge of the blade.

Claim.—The above-described boot heel shave, consisting of the blade B, capable of becaused and lowered in the stock A in the manner described, in combination with the quard C which may be moved towards and from the blade B, and be secured in positive by

the screws g and slots i, substantially in the manner specified.

Second, the arms e of the guard C and the recesses f in the stock for steadying the guard as set forth.

No. 36,036.—WILLIAM STOW, of Utica, N. Y.—Improvement in Breech-losding Original Research of the construction of the construct the carriage for the support of the breech and the barrel or body of the gun; also in a mode

of combining the barrel of the gun with the carriage whereby its rear end is made to move away from the breech in its upward movement therefrom; and also in a means of moving the barrel from and to the breech piece for loading and firing, and of securing the barrel during the discharge of the gun.

Claim.—First, the carriage composed of the rigidly connected side pieces A A, cross-piece A', axle B, and trail piece C, and the side pieces D D, swinging on the axle and carrying

the breech piece F, substantially as herein described.

Second, the lever J and catch K applied in combination with each other and with the body H, and portion of the carriage to which the fixed breech piece is secured, substantially as herein specified.

Third, securing the swinging body H to the fixed breech piece E during the discharge of the gun by means of lugs I I on the body, and notches for their reception in the parts D D of the carriage, to which the breech piece is rigidly secured, substantially as herein described.

No. 36.037.—B. F. STURTEVANT, of Boston, Mass.—Improvement in Fuze for Explosive Stills.—Patent dated July 29, 1862.—Within the chamber of a fuze plug, which is constructed in the ordinary manner, is screwed a cylindrical tube or plunger carrier, the threads of the screw of the latter being much smaller than those upon the outside of the plug, by which such plug is secured to the shell. The carrier is provided with a head through which are any suitable number of flame ducts, and projecting downward from the head is a bifurcated tongue or friction discharger which enters the cap D of a cylindrical bell or hollow plunger. A priming or composition that will ignite by friction is placed in the cap D, and around the prongs of the discharger, so that as the discharger is drawn through the cap in the flight of the shell, the priming will be ignited, and the flame be transmitted to the charge in the main chamber, and thence to the top of the time fuze.

Claim.—In combination with the fuze plug A, a device which shall enter the same, and so extend beyond or out of its mouth, that on impact against an object during the flight of a shell in which the plug may be, such device may be driven into the plug, and caused to so cut or break it as to enable the flame proceeding from the upper or burning end of the fuze to

enter the charge chamber of the shell, as specified.

No. 33,033.—B. F. STURTEVANT, of Boston, Mass.—Improvement in Fuze for Explosive Shells.—Patent dated July 29, 1862.—The fuze case or plug is provided with a tapering socket for the reception of the fuze. A cylindrical chambered plunger is fitted closely within a chamber of the case B. The lower end of the plunger is open and made with a thin flexible edge, in order that when the plunger is driven back against the shoulder of the fuze case, it may bend up or be upset. The chamber of the cap is continued down so as to open in the chamber of the plunger, by means of a flexible flanch, which, after the chamber g of the cap has been supplied with fulminating or friction composition, may be bent down or upset so as to close the mouth of the said chamber g. Extending from the plunger case in the cap is a metallic bifurcated tongue consisting of a strip of metal bent so as to have two prongs and a head, and so arranged that in the act of discharging the shell, the fuze case and plunger will be driven forward, causing the tongue to be drawn quickly through the cap so as to ignite the priming, when the bottom of the chamber g will burst open and communicate fire to the top of the fuze in the socket.

Claim.—An explosive friction apparatus or a plunger, a friction composition chamber, a plunger case and a friction tongue, combined and arranged so as to be applied to a fuze plug and its fuze, and operate therewith in manner and under circumstances substantially as

bereinbefore set forth.

Also, the plunger, as made with an open bottom and a thin, flexible edge or lower part, capable of being upset or bent, so as not to cut through the shoulder or walls of the fuze plug, under the blow of the shoulder imparted to the lower end of the plunger at the period of the discharge of a shell from a gun, as specified.

Also, the extension of the chamber g into the chamber d', by means of a flexible annular fanch f, capable of being upset, so as to close the mouth of the chamber g, as above

explained.

Also, the friction tongue, as made with two or more rasping prongs, arranged substantially

u described.

Also, the arrangement of the walls of the plunger with respect to the shoulder e, and the are socket a, substantially as described, in order that the plunger, or any portion thereof, may not, at the period of the discharge of a shell from a gun, cause the fuze to be disarranged * driven backward in or through its socket.

No. 36,039.—B. F. STURTEVANT, of Boston, Mass.—Improvement in Fuze for Explosive Seeds.—Patent dated July 29, 1862.—This invention consists in constructing the flame educion passages so as to throw the flame of the friction priming in radial jets in such a manner is to cause it to fall upon and around the entire upper surface of the fuze composition case while the shell is in motion.

Claim.—Combining with the channelled head of the fuze case, and the part B thereof, one more eduction passages e e e, so arranged and formed in the part B as to discharge the imme of the priming, either directly upon the entire surface of the cap of the fuze composition is so that it may be forced thereupon by the resistance of the atmosphere, under circumstances substantially as set forth.

No. 36,040.—BENJAMIN F. TAFT, of Blackstone, Mass.—Improvement in Pessaries.—Pessidated July 29, 1862.—The nature of this invention will be understood by reference to the cam

and engraving.

Claim.—The ball and socket movement of the pessary in the stem and the slide motion and method of adapting it to different individuals, so that the womb can be elevated to any request height.

No. 36,041.—THOMAS R. TAYLOR, of Cleveland, Ohio.—Improvement in Machine j. Making Horseshoes.—Patent dated July 29, 1862.—This invention is designed as an important in a machine patented to the said Taylor on April 3, 1860, and it consists in a contion and arrangement of dies and swedges with a method of operating the same conjoinst. means of cams and levers, for the purpose of forming shoes by one continuous operation as machine, at every complete revolution of which, it is capable of producing one shoe.

Claim.—First, the combination of the reciprocating die R and swedges a a, arrange at

operating conjointly in the manner and for the purpose specified.

Second, the cam levers d d pivoted to the arm T, in combination with the swedges arranged and operating as and for the purpose set forth.

Third, the cams jj and j' and cam slot k, in combination with the cam S, slide U. at arms T, arranged and operating as and for the purpose described.

No. 36,042.—JAMES E. THORP, of New York, N. Y.—Improvement in Pumps.—Patri dated July 29, 1862.—This invention consists in placing the two induction valves and it.: seats within the same cylindrical box or bore arranged transversely to the cylinder, a partial being provided in the said box or bore to form two section chambers. The eduction value are placed in a similar box without a partition between them, but with a guard so arranged to serve for both valves, the said box forming a discharge chamber for both ends of the curder and connecting both with the discharge pipe.

Claim.—First, the arrangement of the two induction valves or two eduction valves, or acc two in one cylindrical or other circular box or bore situated transversely to the bore of the

cylinder, substantially as and for the purpose herein specified.

Second, the bushes B and C, each containing two valve scats and an interposed particle f or guard g, applied in combination with the said transversely situated boxes or by substantially as herein set forth.

No. 36,043.—C. F. WALKER, of Benford's Store, Pa.—Improvement in Horse Rates -Patent dated July 29, 1862.—The driver's seat is attached to the axle above, and the curd rake teeth are also attached directly to the axle. The thills are connected to the axis straps or clips so as to allow it to turn freely to a certain extent. To the outer sides of the straps or clips so as to allow it to turn freely to a certain extent. To the outer sides of the back part of the thills are attached levers connected at their lower ends to the axle. The part are so arranged and connected that as the driver occupies the seat in an upright position, the ends of the teeth will be in contact with the surface of the ground and rake up the hay. W: the requisite quantity of hay is collected, the driver, by a forward inclination of he less causes the axle to turn so as to raise the teeth and discharge the hay. At the same time about or clearer is forced back and insures the discharge of the load.

Claim.—The combination of the axle A, teeth E, thills C C, and seat D, when arranged

to operate as and for the purpose set forth.

Further, the bar or clearer H, when connected to the axle A and thills C C, and arranged to operate by the movement of the seat D, in conjunction with the teeth E, as and for the purpose set forth.

No. 36,044.—W. WESTLAKE, of Milwaukie, Wis.—Improvement in Heaters for Railrest Cars.—Patent dated July 29, 1862.—The heating apparatus is intended to be placed underneath and attached to the bottom of the car, and the invention consists in an arrangement of pipes and dampers for supplying air to the heater in all conditions of motion or rest of the car

Claim.—The wind chamber g, having the valve h, with its spindle i and flarges j, a combination with the air pipe f, constructed and operating as described.

Second, the swinging damper g and the pipes o, with the valves p, in combination with the air pipe f and air space d and the smoke pipe e, as and for the purposes described. Third, the lips n, for deflecting the air against the fire-box, as set forth.

Fourth, the arrangement of the means or devices for operating the draught slide plate:

from the interior of the car, as set forth.

No. 36,045.—T. N. WHEELER, of Rio, Wis.—Improvement in Grain Registers.—Pater dated July 29, 1862.—This invention consists in the employment of a measure of any grad capacity fitted to slide within a box or chamber, and which, as it moves along, is caucal h come in contact with the projecting end of a lever. The motion of the lever is made actuate a pawl and ratchet connected by proper gearing to the index of a dial-plate. The motion of the lever is made ! which latter is marked the units of measure. As the lever is released from the measure, it is drawn back again by means of a spring, when the operation is repeated.

Claim.—The registering of grain measures by means of lever C, spring K, and shirts

measure a, substantially as herein set forth.

No. 36,046.—HENRY WILLIAMS, of Chicago, Ill.—Improvement in Corn Harvesters.— Patent dated July 29, 1862.—Reference to the specification and drawings will be necessary

for a description of this invention.

Claim.—First, the revolving tables, consisting of the shafts F F' F" F", in combination with the arrangement by which the revolving motion, or the stopping of the revolving motion, or the stopping of the revolving shafts F' F'', at the pleasure of the driver, can be effected, substantially as described.

Second, operating the sickles Q Q, and the revolving shafts F'F'', by means of connecting shaft E with shaft M and M, with F'F'', in the manner as set forth.

No. 36,047.—W. A. WOOD, of Hoosick Falls, N. Y.—Improvement in Harvesting Machines.—Patent dated July 29, 1862.—Upon the inner end of the finger bar is attached one end of a link, the other end fitting upon the crank of a short shaft extending back and provided at its rear end with a bevel pinion which is operated by a lever under the control of the driver, so that by forcing back the lever, the finger bar will be elevated as desired. The tongue of the machine is pivoted to the front part of the frame, and its rear end is furnished with a catch or hook which will catch upon a guide piece attached to the rear part of the frame, and when thus caught or supported, the front part of the frame will be raised with the she so as to admit of the machine being moved from place to place. The axle passes through scat plates by means of which the frame is suspended to the axle.

Claim.—The combination of the link, crank and geared lever, for raising up, holding up,

or lowering the finger bar, substantially as described.

Also, in combination with the foot and hinged shoe, which allows the finger bar to turn up, the pivoted tongue, catch, and guide, for giving the shoe an additional elevation above the ground for the purposes of transportation, substantially as described.

Also, suspending the main frame to the main axle by means of the seat places, substan-

tially as described.

No. 36,048.—W. H. Allen, of Fryeburg, Me., assignor to Himself and Otis Warren, of the same place.—Improved Apparatus for Leaching Tan Bark, and Obtaining Extracts.—Parent dated July 29, 1862.—This invention consists in the employment of a tub or vat prothe third with a perforated false bottom or strainer somewhat elevated above the real bottom. In the centre of the tub is arranged a tubular shaft C, whose upper end is open and extends into a stuffing box fixed upon the lower end of a chambered conduit elbow. Extending horizonally from the tubular shaft C is a hollow or chambered arm opening into the shaft and closed is its outer end, and provided with a series of openings along one side; the object of the apparatus being to distribute water or any other leaching liquid in the streams, and evenly, not the paper surface of a mass of bark or other material to be leached. over the upper surface of a mass of bark or other material to be leached.

Claim -An improved leaching apparatus, constructed in manner and so to operate sub-

stantially as represented and described.

No. 36,049.—E. M. BENFIELD, of Maquon, Ill., assignor to BENFIELD & DAWDY, of the same place. - Improvement in Machines for Trimming Hedges. - Patent dated July 29, 1862. Within a suitable frame-work is arranged a double series of stationary and rotary cutters in a remical plane, for trimming each side of the hedge, in connexion with which is a horizontal series of stationary and rotary cutters for trimming the top of the hedge, the two series opera-ting together by means of gearing. In the rear of the trimmers is a frame, which is jointed to the forward frame and so arranged as to raise and depress the trimming cutters and to gaide the machine.

Claim.—First, combining with the frames A A, constructed as described, the rotary side thiers c c c c, and stationary cutters g g g, and the top or horizontal rotary cutters k k k,

and stationary cutters m m m, the rotary cutters being operated by the driving wheels C C, though the medium of gear wheels, as herein described.

Second, raising and depressing the front ends of the frames A A by means of the inclined ham I', arm P, and spring latch V, the arm P being secured to the rear frame, which is jointed to the frames A A at o o, and which is mounted on guide wheels t t, at its rear end, ribitantially as herein described.

No. 36,050.—Albert Bridges, of New York, N. Y., assignor to Himself and Alfred Bridges, of Newton, Mass.—Improvement in Railroad Car Springs.—Patcht dated July 29, 162.—This invention consists in the employment of shafts to answer as springs by a tor-ional action. These shafts extend across the truck, each being free to turn in four bearings is brackets, and each rigidly fixed to three arms or levers, two of which are near the opposite of the shaft and the third at the centre, in proper relative positions for bearing the load o be supported. The lower extremities of the central arms are connected by a bolt and nuts varranged that the torsion of the springs may be increased or diminished as required.

**Claim.—First, the employment in railroad car trucks of torsional springs, so mounted and

manged as to operate substantially in the manner herein set forth.

second, the employment in such trucks of the adjustable torsional apparatus, consisting of be connexion H with its nut or equivalent adjusting means in combination with the brackets Ed levers represented or their respective equivalents as set forth.

Third, the arrangement of torsional springs M N, or their equivalents, in combination with arms G E F, or their equivalents, and with a car truck, so that the equalizing effect shall be obtained substantially as described.

No. 36,051.—JOHN EKIN, of Xenia, Ohio, assignor to Himself and WILLIAM ALLISON. It the same place.—Improvement in Steam Boilers.—Patent dated July 29, 1862.—This new tion consists of a steam boiler and furnace having an inward flue with a downward draw, and an outer discharge flue with a draught in a reverse direction, the flue first travely by the products, of combustion being within the water space and the return flue on its varior, so that the water is entirely surrounded by the heating gases, and the hottes: are entirely surrounded by a heating surface in contact with the water. Within the rate is a grate, provided with one or more apertures of sufficient size and so located that the of incombustible matter may escape through the said apertures after having been for some the subjected to the action of the burning fuel. A stirrer, formed of a hollow shaft terminater in a number of expanding arms, is journaled above in a cross-bar, and rests upon the ber of the grate.

Claim.—First, an inner flue B, containing the fire space and fuel supply chamber, in the described combination, with an annular water space A, surrounded by an annular flux C, communicating with the flue B at the lower or rear end of the water chamber, all subsections.

tially as specified.

Second, a grate F, applied within the flue B, and provided with one or more aperum adapted by their size and location to permit the escape of slag after it has been for a subjected to the action of the burning fuel, substantially as set forth.

Third, the hollow stirrer G, operating in connexion with the grate F f, substantially as 22

for the purposes set forth.

No. 36,052.—A. C. FERREN, of Decorah, Iowa, assignor to Himself and F. M. CLAR. the same place.—Improvement in Screens for Separating Oats from Wheat.—Patent and July 29, 1862.—To the upper surface of a screen are attached a series of vertical surface plates at such a distance apart that oats and cockle will be retained upon the screen are lengthwise position, and prevented from assuming a vertical position, so as to pass of a me end, while the wheat will drop through the screen.

Claim.—In combination with a screen, a series of parallel vertical plates c, attached to

frame A of the screen, to operate as and for the purpose herein set forth.

No. 36,053.—A. M. HILL, of Bradford, Conn., assignor to C. A. MILLER, of Philadelphia Pa.—Improvement in Locks.—Patent dated July 29, 1862.—This invention consists is a mechanism for reversing the latch bolt of a door lock so that the latter can be readily converted from a right-handed to a left-handed lock, and vice versa.

Claim.—The arms D and D' constructed, adapted to each other, and arranged for the ception of the square spindle H, substantially as set forth, in combination with the sping of yoke G, its projections i and i, or their equivalents, and the latch bolt E, the latter being of

nected to and arranged to turn in the said yoke as specified.

No. 36,054.—C. B. Long, of Worcester, Mass., assignor to Himself, Augustus Rec. 2. Jonathan Luther, of the same place.—Improvement in Device for Indicating the Elevan of Ordnance.—Patent dated July 29, 1862.—This invention consists in the combination of a index attached to or forming a part of a pendulum whose plane of oscillation is intended be parallel with the axis of the bore of the cannon or other piece of ordnance, and a pendulus scale or dial whose plane of oscillation is intended to be perpendicular to the bore, the said scale or dial being suspended in or upon bearings which are to be attached to the trumpical and the pendulum carrying the index being suspended from the said dial, upon which is index will indicate the elevation of the gun under all conditions. Combined with the padulum and pendulous dial is a locking hook, so applied as to be capable of locking the said or dial in fixed positions relatively to the gun.

Claim.—First, the combination of the pendulum C, index pointer c, and swinging from or dial B, having a scale b, the whole arranged to operate substantially as herein set forth. Second, the hook E, applied in combination with the frame A, and with a slot g in

pendulum C, to operate substantially as and for the purpose herein specified.

No. 36,055.—H. C. MARCH, of Lawrenceville, Penn., assignor to Himself and EDNING SISLER, of the same place.—Improvement in Stove Grates.—Patent dated July 29, 1832.—Use derneath a grate formed of annular and radial connecting bars is a plate D, having a number of arms, each arm being provided with two projections so arranged that one of the latter shapes through a corresponding opening between the bars in the grate. On the under side of the plate D are projections, to which is connected a rod or bar G, the front end of the passess through an oblong opening in front of the base. In the end of the bar G is an object opening, and on the under side of the bar is a recess into which fits the bent end of a level; it means of which, the plate is caused to have a lateral and vertical movement independent of the grate.

Claim.—First, the grate B, having openings arranged, substantially as specified, in combination with the plate D and its projections i, when the said plate is so constructed and arranged that it can receive both a lateral and vertical movement independently of the grate for the purpose specified.

Second, so constructing the grate B and plate D, and so applying both to the base A of the stove, that they can be tilted in the manner and for the purpose herein set forth.

Third, the bar G, jointed to the plate D, and arranged for the reception of the detachable lever I, as and for the purpose specified.

No. 36,056.—T. J. MAYALL, of Boston, Mass., assignor to CYRUS WAKEFIELD, of South Reading, Mass.—Improvement in Ratan Machinery.—Patent dated July 29, 1802.—The object of this invention is to cut away the rings that project at the joints of ratans without otherwise impairing the surface, which is effected by means of a series of rollers that firmly grap the ratan in combination with a series of rotating cutters that are kept raised from the surface until the pressure of a ring or other excrescence causes them to converge and reduce the stick to a uniform cylinder.

Claim.—First, the method of cutting away the knots of ratan by the employment, in combination with two or more pairs of rollers, to impart to the stick of ratan a rectilinear movement, as described, of a series of rotating knives operating substantially in the manner set

Second, opening and closing the knives for cutting away the knots of ratan automatically or otherwise at given intervals of time by means of the herein-described arrangement of devices or any other equivalent mechanism operating in the manner substantially as set forth.

No. 36,057.—T. J. MAYALL, of Boston, Mass., assignor to CYRUS WAKEFIELD, of South Reading, Mass.—Improvement in Ratan Machinery.—Patent dated July 29, 1862.—The nature

and object of this invention will be understood from the claim.

Claim.—First, the method herein described of dividing and cutting the surface of ratan into lengitudinal sections or strips that may be subsequently separated from the core to form strands or braids for seating chairs and for other purposes, by the employment, in combination with suitable feed rollers, of a series or cluster of cutter wheels arranged as shown and described, so as to revolve by the progress of the stick of ratan, and to cut into its surface to the depth required for the thickness of the strand, substantially as herein set forth.

second, providing the corresponding grooves of rolls for carrying the ratan to and from the cutting mechanism with vulcanized India-rubber as described, so that the stick of ratan, while being fed and properly guided through the machine, may be firmly grasped without bruising

or crushing its silicious surface, substantially as hereinbefore set forth.

No. 36,058.—T. J. MAYALL, of Boston, Mass., assignor to CYRUS WAKEFIELD, of South Reading, Mass.—Improvement in Ratan Machinery.—Patent dated July 29, 1862.—This inrention consists in the employment of a series of peculiarly formed knives that cut into the strand of a stick of ratan to the depth required for the thickness of the strand while the stick

is passed through the machine by suitable feed rollers.

Claim.—The apparatus herein described for dividing the surface of ratan into longitudinal sections previous to the said sections being separated from the core, to form strands for chair sealing and other purposes, the same consisting of a cluster of lancet knives in combination with and protruding from the cam faces of self-adjusting levers, the whole being constructed and arranged, in relation to a suitable ratan-feeding mechanism, to operate substantially as Leen shown and set forth.

No. 36,059.—G. W. Muir, of Manchester, England, assignor to J. A. LOCKE, of Boston Man.-Improvement in Ventilators for Buildings .- Patent dated July 29, 1862.- The nature of this invention is explained by the claim. The specification describes various modifications the device.

Claim.—In combination with a ventilating apparatus or an air shaft divided into three or more passages, the external openings to the atmosphere and the internal openings to the apartments, so that whatever may be the direction of the external natural currents of air, some one or more openings snall be exposed to it in such a way as to receive an entering current, whilst " ter openings are free for the outgoing current without interference from the external current, - described.

No. 36,060.—C. N. Orpen, of New York, N. Y., assignor to Himself and JOHN GAUDU, of the nice place.—Improvement in Placing Reservoirs for Lamps.—Putent dated July 29, 1862. This invention consists in providing the bottom of a reservoir for containing coal or other oil, i and as a lamp, with a socket so as to enable it to fit upon a common gas burner, the latter us provided with a sleeve of India-rubber or other suitable material, by which means a usy be affixed to a gas burner when the gas is not used.

Claim.—The socket a, applied in the reservoir b, to set over the gas burner c, as and for

the purposes specified.

Also, the elastic sleeve d, upon the burner c, to receive the socket a, as set forth.

No. 36,061.—L. S. SCOFIELD, of Somerville, Mass., assignor to Himself and E. D. Bell, of Malden, Mass. - Improvement in Skeleton Skirts. - Patent dated July 29, 1662. - This inves-

tion is explained by the claim.

Claim. - The new manufacture of skeleton skirts described, in which the hoops are secret to the tapes by cords which pass through the tapes and through the coverings of the keys. and are knotted or tied at each crossing of the tapes and hoops, each of which could retends continuously along each tape from the top to the bottom, and serves to support hoops in common with the tapes, as well as the purpose of securing the hoops and use together.

No. 36,062.—C. M. SPENCER, of South Manchester, Conn., assignor to CHARLES CREME of Hartford, Conn.-Improvement in Cartridge Retractor for Breech-Loading Fire-4ra -Patent dated July 29, 1862.—This invention is designed to be applied to the fire-arm form. a patent was granted to the said Spencer in 1860, and numbered 27,393. In a recess at side of the piece B, in front of the piece C, described in the aforesaid patent, is arranged thin, flat lever secured to the piece B by means of a screw pivot, which constitutes the deformithd that the described to the cartridge case, and, in connexion with a pivoted tongue, serves to with the described to the draw and conduct the cartridge case out of the cavity of the breech frame.

Claim.—The arrangement of the hinged lever G, with the breech pieces B C, frame A as

tongue m, in the manner herein shown and described.

No. 36,063.—WILLIAM WESTLAKE, of Milwaukie, Wis., assignor to Himself and C.L. RICE, of the same place. - Improvement in Ventilators for Railroad Cars. - Patent da eld . 29, 1862.—Projecting downwards from the centre of the horizontal cylinder above the call a cylinder K, having its lower end contracted for the purpose of directing the air to the exz of the water receptacle s, which is placed just below the ceiling of the car. This reads a is connected to the cylinder K by means of a rod passing through a tube in its centre. A portion of the rod is provided with a screw-thread, so that the pan may be raise. lowered to or from the ceiling. The pan is also provided with a flange to prevent the was from escaping, and with a dust cloth attached by a spring hook, so as to be readily reset is Claim. -First, contracting the lower end o of the cylinder K, for concentrating and

recting the current of air to the pan or dust receptacle, as set forth.

Second, the fan or receptacle s, provided with the flange or deflection v, with the hoop and cloth, and with the adjusting rod t and nut r, as described.

No. 36,064.—Samuel T. Adams, of Medina, Ohio.—Improved Washing Machine.—Proceeded August 5, 1862.—The nature of this invention is explained by the claim and engaged. Claim.—The rubber D, provided with two series of rollers set at an angle to each oth the separated by the dividing board F, in which they have a bearing, in combination w concave, provided with the fluted slats a a, which are placed at an angle to each other. whose ends connect under the dividing board as represented, the whole being constructed: arranged substantially as and for the purpose herein specified.

No. 36,065.-W. P. BATTEY, of Utica, N. Y., and W. N. TAYLOR, of Philadelphia F.-Improvement in Gas Retorts. - Patent dated August 5, 1862. - This retort is cast op na: . 2 ends and divided into three or more chambers by partitions extending through it leads to the for the purpose of causing the oil from which the gas is made to pass through the learnest three or more times while the gas is being generated. The ends of the recent closed by movable heads, so that when the retort has become worn or burned on its and side by use it can be taken out and the ends be reversed, when it will be again ready lets-

Claim.—First, a gas retort so constructed as to be capable of use in reversed position.

stantially in the manner and for the purpose set forth.

Second, we claim, in combination with the gas retort A, the removable heads F, succession tially in the mauner and for the purpose set forth.

Third, the use of two or more chambers, in combination with a gas retort, constrainsubstantially in the manner and for the purpose set forth.

No. 36,066.—Roberts Bartholow, of U.S. Army.—Improved Solid Cartridge.—Prodated August 5, 1862.—This invention consists of a composition formed of photograph. lodion cotton dissolved in a mixture of alcohol and sulphuric ether, which, when poset prepared, is mixed with due proportions of mealed and granulated powder.

Claim.—The use of the within-described water-proof solid cartridge, compounded and in

structed substantially as herein specified.

No. 36,067.—EDWARD BEANES, of Havana, Island of Cuba.—Improvement in the Morn facture and Refining of Sugar.—Patent dated August 5, 862 -The nature of this inve: is explained by the claim.

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Claim.—The employment of phosphate of ammonia in conjunction with sulphurous acid or any of the sulphites in the manufacture and refining of sugar, substantially as and for the purpose herein described.

No. 35,068.—EDWARD and JOHN BOURNE, of Pittsburg, Pa.—Improvement in Radiators.—Patent dated August 5, 1862.—This invention consists in the application of short tapering tubes or flues (open at both ends) passing transversely through the two thin metallic sheets composing the radiator, and secured therein in such a manner as, that while they form a series of stays to enable the sheets to withstand the outward pressure of the steam, they will also serve as passages for the atmosphere, as it becomes heated at the back of the radiator, escape through to the front instead of ascending up the wall near which the radiator is paced, and thus effect a better distribution of the neated air. Passing up and down the back of the radiator, and connected therewith near each edge, are vertical pipes communicating with the space between the sheets through the openings formed at each point of intersection in the pipes, for the purpose of conducting the steam uniformly and rapidly to each part of the radiator, and also as a means of stiffening the sheets.

Claim.—First, the application and use of short conical or funnel-shaped air tubes or flues ddddd d passing transversely through the steam space between the sheets forming the

ndiator, in the manner and for the purpose hereinbefore stated.

Second, combining with a radiator formed of thin metallic sheets a series of steam pipes sssss, having openings, h h h h, fig. 3, communicating with the space between the sheets, for the purpose of conducting the steam rapidly to all parts of the radiator, and also as a means of stiffening the sheets by acting as braces thereto, as herein set forth.

No. 36,069.—T. R. BRENT, of Muscatine, Iowa.—Improvement in Corn Planters.—Patent dated August 5, 1862.—This invention relates to a corn planter of the class designed for planting corn in hills and in check rows, and consists in the employment of a cam wheel placed in an adjustable frame and arranged with levers and slides in such a manner that the seed will be dropped automatically by the forward movement of the machine, and the seed-dropping mechanism at the same time be under the complete control of the driver, so that it may be stopped or put in motion at any time as circumstances may require.

Claim.—The cam wheel I provided with projections f f, as shown, and placed in the adjustable frame II, which is connected at its front end by a hinge or joint e to the bar a of the frame A, and connected at its back end to the crank J of the shaft K, in combination with the levers M M attached to frame H, and connected at their front ends to the seed slides F F, all

LITERAGED as and for the purpose herein set forth. .

No. 36,070.—E. Y. CHEVALIER, of Fort Wayne, Ind.—Improvement in Bes Hives.-Patent dated August 5, 1862.—In the space between the bottom board and the lower end of the front and back pieces, is fitted a drawer which is divided into three compartments, the one in the centre serving as a feed receptacle and provided with a lid to cut off communica-tion with the hive. The upper ends of the other two compartments are covered with wire cloth, while their outer sides are formed of slats pivoted to the drawer so as to admit of their being opened more or less for the purpose of ventilation and ingress of the moth or miller.

Claim.—The drawer B provided with the feed receptacle e and the ventilating compartmen's and moth traps d, the latter being provided with adjustable stats h and wire cloth g g, and all arranged relatively with the hive, to operate as and for the purpose set forth.

No. 36,071.—J. D. CHRISTIE, of Hackensack, N. J.—Improvement in Water Elevators.—Patent dated August 5, 1862.—This invention consists in the employment of a tubular shaft B. to one end of which is attached a ratchet D, having an annular flanch projecting at right angles from its outer surface. Within the shaft B is placed a fixed shaft having a ratchet secured to one end o. it, to which is attached a collar H. Upon this collar is placed loosely a Gindrical box or drum I, into which the flanch of the ratchet D loosely fits. This drum is Provided with an ear or projection, to which is pivoted a pawl having its rear end directly provite an opening in the drum, in which is fitted a segment slide that serves as a brake.

Intel loosely also on the collar H is a circular disk to which a crank is applied; the devices ring so arranged that the windlass may be easily operated, and the article raised be held contained at any point required.

Claim.—The hollow or tubular shaft B, with the ratchet D and flanch E attached, in comination with the stationary or fixed shaft F, with ratchet G attached, and the box or drum I, with pawl J secured to it, and the slide or brake L fitted in drum I; the above parts being with the disk M, and all arranged for joint operation as and for the purpose herein set

No. 36,072.—Castle Churchill, of New Hartford, Iowa.—Improvement in Seeding Machines.—Patent dated August 5, 1862.—In this machine the hopper is attached to a frame invoted or hinged at its rear end to the main frame, and used in combination with toothed burs connected at their lower ends by chains to the said hinged frame, so that as the hopper and its frame are raised by means of a lever under the driver's control, the teeth will also be raised from the ground. Digitized by Google Claim.—The attaching of the hopper or hoppers to a frame K hung or placed loosely on the rod J', in combination with the tooth bars I, connected at their lower ends by chains $d \approx 1$. the frame K, and fitted at their back ends leosely on the rod J', whereby the teeth H may be raised from the ground by raising the hopper and frame K, as described.

Also, the combination and arrangement of the hopper frame K and tooth bars I, as and fir

the purpose specified.

No. 36,073.—C. M. CLARK, of Cincinnati, Ohio.—Improvement in Broadcast Sources.— Patent dated August 5, 1862.—This device is designed to be so constructed and of stable size as to be attached to and easily carried by the operator. The ends of the fan are next in contact with the inner periphery of the fan case, so that as the fan revolves it serves connexion with the blast of air generated, to exert considerable force in ejecting the sale and spreading it broadcast.

Claim.—Projecting the seed from the cylindrical case B in which the fan revolves of means of the fan blast, in combination with the impact of the blades of the fan, substanting

as described.

No. 36,074.—C. O. CROSBY and HENRY KELLOGG, of New Haven, Conn.—Improved in Machine for Producing Folded Trimming.—Patent dated August 5, 1862.—The nature of this invention will be understood from the claim; it does not admit of a brief description.

Claim.—First, the combination of delivering apparatus substantially such as described

with apparatus for folding, substantially such as is described.

Second, in combination a delivering apparatus, an assistant folder, and a folding apparatus

tus, all substantially such as specified.

Third, in combination a folding apparatus, or a folding and an assistant folding comvance, and a mechanism for stitching folds together, the combination being substantially such as described and operating substantially as specified.

Fourth, in combination an apparatus for making a fold, and apparatus for stitching as apparatus for discharging, all substantially such as described and operating substantiation

set forth.

Fifth, in combination a delivering apparatus, a folding apparatus, a stitching mechan-and a discharging apparatus, all substantially such as described, and this either will without an assistant folder, substantially such as described.

Sixth, in a folding apparatus, the uso of projections at right angles to the folders or inequivalents so that a moving folding edge shall nip tape, braid, &c., between itself and and

projections, so as to make a sharp fold, as described. Seventh, an assistant folder having an interrupted motion in combination with a deliverity

apparatus having a continuous motion, as specified.

Eighth, folding blades grasping folded material, and moving at the same time and in the same direction with discharging apparatus grasping the same material, substantia... specified.

Ninth, in combination with each other, folding blades moving each over the other to ive folds which are springy, or are mounted on springs, so that they may change their re-

level and press upon goods when folding them, substantially as specified.

No. 36,075.—J. E. CROWELL, of Chelson, Mass.—Improvement in Flax Cleanin, and Dressing Machines.—Patent dated August 5, 1862.—This machine is composed of a second composed of a second composed of a second composed of a second composed of a second composed of a second composed of a second composed of a second composed of a second composed of a second composed of a second composed of a second composed composed of a second composed co of slowly moving fluted rollers and rapidly moving beaters, pairs of the former being arrange both behind and in front of pairs of the latter in one part of the machine, and one of the same behind the rear pair of the former, and in close relation to an inclined concave para another part of the machine, so that the substance treated may be left in a condition we

corded and spun he same as cotton, wool, or in long staple, as may be required.

Claim.—First, the combination of the slow rollers E E', beaters F F', fast rollers E'E. and beater F2, with its concave H, the whole constructed and arranged and operated in its

manner and for the purpose substantially as herein described.

Second, the bladed beaters F F', constructed as specified, and operated in pairs, in the manner described, in combination with the draw rollers E2 E3, and beater F2 with is co-

cave H, substantially as and for the purpose set forth.

Third, delivering the cleaned and partly dressed flax from a machine, operating substances tially as described, directly upon a fixed concave H, and under a revolving bladed bester? of the construction and arrangement described, substantially in the manner and for the ;pose set forth.

No. 36,076.—J. L. CROWLEY and L. J. JOHNSON, of Marion, Iowa.—Impresental 12 Sugar Evaporators.—Patent dated August 5, 1862.—Upon the upper hot-air chamber me a purifier within which is fitted a movable frame provided with a perforated metal Presting upon supports within the frame, and near the bottom is a strainer capable of bearing upon supports. readily removed and used as a skimmer. Between the two hot-air chambers is an incline flue, and at the rear of the furnace is a cross plate having two openings, one connecting the furnace and the other with the lower hot-air chamber. A movable chimney is make it

slide so as to be adjusted to either the hot-air chamber or the furnace. Beneath the compartments, and so as to be adjusted to the conduit of either, is a nest of strainers, of different degrees of fineness, for drawing off and straining the sirup.

Claim.—First, the movable frame E in combination with the adjustable strainer and skimmer F, the metallic skimmer G, and the frame H, operated in the manner and for the pur-

pose herein set forth.

Second, the angular flue K in combination with the openings l l and the adjustable chimney M, for the purpose herein specified.

Third, the nest of strainers N, for the purpose herein set forth.

No. 36,077.—ABRAM DAVIS, of Chicago, Ill.—For Wind Breakers for Lanterns.—Patent dated August 5, 1862.—The nature and object of this are explained by the claim.

Claim.—First, the wind-breaker c c c c for the top of lanterns and lamps, made of any suitable material, by uniting the frusta of two cones, or their equivalents, which will cause currents of air to pass around the concavities and escape at the opposite side without disturb-

ing or extinguishing the flame, as described. Second, the wind-breaker h h h, h, which is a band made of tin or any other suitable metal, or of glass, with a flange at its base, and set in the bottom band, below the perforations, which will turn the current of air up into the chamber above and prevent extinguishing the

flame, as described and for the purpose specified

No. 36,078.—CHRISTIAN DORFLINGER, of Brooklyn, N. Y.—Improvement in Lamp Chim. Res.—Patent dated August 5, 1862.—This invention is explained by the claim.

Chim.—First, the blowing and moulding of glass chimneys for lamp neck, bulb, and base,

oval throughout the entire length, instead of round as at present done.

Second, the blowing of such chimneys in a mould, which insures perfect uniformity of size and a greater weight of glass, in the manner and for the purposes set forth.

No. 36,079.—CHRISTIAN DORFLINGER, of Brooklyn, N. Y.—Improvement in Lamp Tops.—

Patent dated August 5, 1862.—This invention is also explained by the claim.

Claim.—The making of the top of lamp burners oval instead of round, so as to receive and fit all oval-base lamp chimneys, in the manner and for the purpose herein set forth.

No. 36,030.—T. H. DUNHAN, of Boston, Mass.—Improvement in Machinery for Reducing Rope to Fibre.—Patent dated August 5, 1862.—This machine is designed for picking untarred rope and separating its fibres so that they may be again spun. The invention consists in the combination of a picker cylinder with a feed-roll provided with teeth pointing in a direction opposite to that in which the roll revolves. Immediately beneath the roll, and extending across the machine, is a metal bed, the upper face of which is curved concentrically with the roll, while its inner edge rises above a horizontal plane, touching the lower side of the

Claim.—The picker cylinder B in combination with the toothed feed-roll F, and curved bed G, operating substantially as described, for the purpose specified.

No. 36,081.—J. G. ERNST, of York, Pa.—Improvement in Removable Bayonet Guard.—Patent dated August 5, 1862.—This device is composed of a soft clastic ball fastened to a cocket of some hard, impenetrable material, provided with a slotted flange on the outside to receive the ends of a strap, and with ears on the inside which serve to secure the ball to the socket. By means of a spring strap, in combination with an adjustable safety strap, the and guard, when applied to the point of the bayonet, is firmly retained and prevented from bing displaced when the bayonet is used for practice or exercise, and easily removed when

Claim.—First, the employment or use of removable guard B for bayonets, substantially

in the manner and for the purpose shown and described.

Second, the arrangement of the adjustable elastic strap or cord C D, and safety strap E, in combination with the guard B, substantially as and for the purpose specified.

Third, the arrangement of the metallic socket b and slotted flange c in combination with the clastic ball a, strap C D, and bayonet A, all constructed and applied substantially as and for the purpose set forth.

No. 36,082.—ROBERT FITTS, Jr., of Fitchburg, Mass.—Improvement in Machinery for Brading Wood.—Patent dated August 5, 1862.—This invention consists in the employment is a chain, the links of which are of V-form, and constructed in two parts, as shown in the Egraving, and used in connexion with rollers, placed one above the other, whose peripheries respond with the links of the chain, and a pattern or former made of cast-iron, in the shape the wood to be bent, and provided with teeth. The pattern is placed between the two clars, the teeth of the pattern meshing into the teeth of the lower roller, and the wood to be at, after being properly steamed, is inserted between the pattern and the chain, which after is under the upper roller. Motion is imparted through the lower roller which feeds hag the wood and chain.

Claim.—First, the pattern or former G, in connexion with the chain H and pressure man. F F', constructed and arranged for joint operation substantially as and for the purper her in set forth.

Second, the particular manner of constructing the chain as herein shown and derivation wit: by means of links formed of a cap g and lining h, riveted together, and consider h shackles h and sliding bars h.

Third, the combination of the cam D, pressure rollers F F', pattern and former 6.2 chain H, arranged to operate as and for the purpose specified.

No. 36,083.—PHILIP GRIFFITH, of Philadelphia, Pa.—Improvement in Grate Renated August 5, 1862.—This invention consists of a series of bars, each bar by a dovetailed recess for the reception of a dovetailed projection on the adjacent by a combination with a block or key at the rear end of the bars, so arranged that the bars of always retain their proper form and position laterally, and so that one or more bars have readily removed or replaced without disturbing the adjacent bars.

Claim.—A series of bars A, each bar having a dovetailed recess for the reception of lovetailed projection on the adjacent bar, in combination with the block or key E, the who

being arranged substantially as set forth, for the purpose specified.

No. 36,084.—W. S. HALL, of Milton, Mass.—Improvement in Sewing Machines.—Fundated August 5, 1862.—This invention consists in the arrangement of the shuttle-box in feeder-guide so as to dispense with the friction caused by the race and slide. Also, in the structing the feeder-guide in such a manner as to produce uniform motion with the less possible friction. Attached to the shuttle-box, and moving with it, is the reciprocating guidenthe feeder. The guide consists of a reciprocating bar N provided with a straight slot in when works a pin P connected with the feeder. When the shuttle moves forward to make a surthe feeder is drawn back towards the needle; after the needle leaves the cloth, the strapasses back, the feeder is pressed forward, the teeth acting upon the cloth and taking > cloth with it. The length of the stitch is governed by means of a slot on the end of the secured in position.

Claim. First, attaching the shuttle-box K and feeder-guide L to the vibrating and this, whether applied to a shuttle moving in the arc of a circle or to a reciprocate

shuttle, substantially as described.

Second, the adjustable reciprocating bar N, in which is the slot o, wherein works the interpretation of the feeder M, as described.

No. 36,085.—W. H. HARFIELD, of London, England.—Improved Apparatus for Ruing and Stoppering Chain Cables.—Patented in England December 15, 1859.—Patent dest Angust 5, 1862.—This invention consists in an arrangement of devices which admit of the use, in connexion with a windlass, of the chain carrier or "flanged annular recess," was patented to Thomas Brown, in Great Britain, April 20, 1847, and in the United Sara July 25, 1854, and also in such an arrangement of the respective parts of the chain-carrier will be used in connexion with the "underlifting stopper" described in a saforesaid patent.

Claim.—First, placing the Thomas Brown chain carrier C upon a windlass shaft, and combining therewith and with either one of the windlass supporters E a curved change conveying trough J in such a manner that the chain to be operated upon can be taken as the hawse hole directly to and beneath the said chain carrier, and then be carried one as same to and into the aforesaid clearing and conveying trough, substantially in the

and for the purpose herein set forth.

Second, when the Thomas Brown chain carriers are placed upon a windlass shaft, arranged them with ratchet wheels and with a system of operating pawls and levers, substitute.

the manner and for the purpose herein set forth.

Third, giving such a form and proportion to the Thomas Brown chain carrier as canable a strap and lever-brake to be combined therewith, substantially as herein representant described.

Fourth, mounting a Thomas Brown chain carrier upon a windlass shaft, when the chain carrier is used in conjunction with the clearing and conveying trough J and Thomas Brown underlifting stopper, substantially in the manner herein set forth.

Fifth, when the Thomas Brown chain carriers are arranged with ratchet wheels up to windlass shaft, the employment, in connexion therewith, of the within-described arranged ment of catches, which enables either of said chain carriers to be coupled with or unappeared from the windlass shaft, substantially as herein set forth.

No. 36,086.—W. H. HARFIELD, of London, England.—Improved Apparatus for Works and Stoppering Chain Cables.—Patented in England May 31, 1860.—Patent dated A 47.5, 1862.—In this apparatus is used a windlass, which is supplied with two or more anna recessed and radially flanged chain carriers, constructed similarly to that patented to Th.—Brown. in England, April 20, 1847, and in the United States July 25 1854

Claim.—Communicating motion from a capstan shaft to a windlass shaft, through the medium of two Thomas Brown chain carriers C' and T, that are respectively mounted upon the said shafts and the endless chain which connects the said chain carriers with each other,

all substantially as herein set forth.

When motion is communicated from a capstan shaft, in the within described manner, the arranging of the other parts of the improved chain-carrying apparatus in such a manner that one of the chain carriers C can be coupled with or uncoupled from the ratchet wheel D at the same time that the other chain carrier C can be coupled with or uncoupled from the chain carrier C', all substantially as herein set forth.

When motion is communicated from a capstan shaft to a windlass shaft, in the within described manner, and when the chain carriers C C are so arranged that they can be coupled with or uncoupled from the windlass shaft at pleasure, the combining of the strap and leverbrakes e f with the said chain carriers, substantially in the manner and for the purpose berein set forth.

When motion is communicated from a capstan shaft to a windlass shaft, in the within described manner, combining the curved and pointed clearing and conveying troughs J with the chain carriers C C and the windlass supporters E, substantially in the manner herein set

When motion is communicated from the capstan shaft to the windlass shaft, in the within described manner, arranging the ratchet wheel D and the counterpoise pawls c c in such a manner with relation to the other parts of the apparatus, that a reverse movement of the windlass will be unerringly prevented by means of the constant action of two or more of the said pawls upon the teeth on the under side of the said ratchet wheel, substantially as herein set forth.

No. 36,067.—W. H. HARFIELD, of London, England.—Improved Construction of Chain Middlasses and Capstans.—Patented in England July 23, 1859.—Patent dated August 5, 1862.—The nature and object of this invention will be understood from the claim.

Claim.—Securing the radial flanges or stops c c to the sides of the annular recess in the improved chain-cable working capstan or windlass in such a manner that the said flanges can be withdrawn from their positions within the said annular recess, or be secured in any desired position within the same, for the purpose of adapting the capstan or windlass to the

handling of cables of widely varying sizes, substantially as herein set forth.

No. 36,088.—J. H. HARPER, of Washington, D. C.—Improvement in Bee Hives.—Patent dated August 5, 1862.—This invention consists in constructing the alternate comb frames with their upper cross-pieces of unequal depth, for the purpose of preventing irregularity in the building of the comb. The lower ends of the frame are formed with notches fitted over ins in the sides of the hive, while the upper ends of the frame are suspended by pins within actches formed in a cleat attached within the front of the hive, and in the upper cross-piece if the sash, so as to prevent accidental lateral displacement, and admit of the ready removal of the frames.

Claim.—First, the combination of the alternate comb frame C and C', with their upper

ross-pieces d c of unequal depth, substantially as and for the object specified. Second, the combination of the comb frames C or C', with the cleat c, cross-piece g', otches a' b', and pins a b, all constructed and arranged as herein shown and described and or the purposes explained.

Third, in the described combination with movable comb frames C or C', supported as escribed, securing the movable honey board in position by means of pins h projecting into some in the front board and door A', as set forth.

No. 36,089.—Samuel Harrison, of Pottsville, Pa.—Improvement in Pumping Engines. stent dated August 5, 1862.—This invention is intended as an improvement upon what is hown as the "Cornish bull engine," and is designed for draining mines, and to be applied those places where the veins are penetrated from the surface or outcrops on their natural ncilinations, commonly called slopes, in contradistinction to shafts or vertical openings. The invention does not admit of a brief description.

Claum.—First, in combination with the triangular sides A of the frame and the inclined junder, the arrangement of the steam and exhaust valves with their several operative

uts, as herein described.

Also, the arrangement of the cross-head K, arm Y, and the plug rod V, with its projecting ar and roller, for operating the levers W X, substantially as described and for the purpose

Also, in combination with the regulating pumps c b, the plungers, rods, arms, latches, and siches for regulating the strokes of the engines in either ascending or descending, or both, listantially as described.

Also, in combination with a balance beam as herein represented, the connecting of the ross-head that carries the piston and the pump rod to said beam by means of the rod I,

ranged as herein described and represented.

Also, in combination with a single-acting pumping engine, the making of the head of the cylinder that is opposite to that one which receives the steam hollow, and connecting it directly with the boiler as contradistinguished from the jacket, by means of a steam pipe D, for the purpose of making the temperature of both ends uniform, as herein described ω represented.

No. 36,090.—C. T. HARVEY, of Chicago, Ill.—Improvement in Charcoal Kilus.—Psterdated August 5, 1862.—This kiln consists of an outer metallic shell or covering, divided insegments or parts composed of one or more sheets of metal fastened together by belts to therwise. On the inside of this covering is a thin wall of brick or stone having a space of the covering of the metallic covering, which space is filled with cement or grout formed in fire-clay or other fluid-hardening mortar.

Claim.—An improved or portable kiln, as made of a metallic covering arranged in covenient segments or sections for construction, or removable, substantially as described.

Also, in combination with the metal covering, constructed as above described, the use of sintarior wall or walls C and B, substantially as and for the purpose described.

No. 36,091.—J. H. HAVENS, of Lewiston, N. Y.—Improved Cradle Chair.—Patent use. August 5, 1862.—The nature and object of this invention will be understood by reference.

the claim and engraving.

Claim.—The combining of a crib or cradle and sewing chair with an easy arm-chair, the used in either form separately, and then to be consolidated into one chair by one more a each change. The whole so constructed and arranged as and for the purposes set forth in above specification.

No. 35,092.—ROBERT HENEAGE, of Buffalo, N. Y.—Improvement in Tobacco Salaist Pipes.—Patent dated August 5, 1262.—The bowl of the pipe has an upward and or a projection from the front of its lower part, through which is a draught hole. From the of the upper end projects a neck into which the stem is inserted. The upper part of the is tightly closed by a cover. Beneath the neck at the rear is a chamber communicating the air passage and provided with a plug at its lower end. The tobacco is lighted at lower part, so that oil formed by the heat is consumed as it falls upon the lighted tobacco.

Claim.—In tobacco pipes, placing the opening, at which the tobacco is ignited, at the bottom of the bowl, and closing the top of the bowl with a tight cover, the wice

structed substantially as described.

No. 36,093.—A. B. HENDYX, of Seymour, Conn., and FRANKLIN FARRELL, of Ansize Conn.—Improvement in Machines for Turning Irregular Forms.—Patent dated August 1862.—This machine is designed more especially for turning the necks of bayonets, and invention consists in the employment of a rotary adjustable cutter, a sliding pattern. Since the property of the stock or bed piece, arranged in such a manner that articles having curved surface combined, may be expedimentally and perfectly turned.

Claim.—The rotary cutter H, attached to the bar or lever E, secured in the hollow in the driving pulleys D, in combination with the sliding pattern L and sliding and in ...

stock V, arranged substantially as and for the purpose herein set forth.

Also, the particular arrangement of the slide N, plate O, with the stock V atta. shaft P, together with the collar R, wormed wheel S, and nut T on the shaft P, as sleeve Q attached to slide N, with the stop n on the bed A, for the purpose of administration of the support U, as set forth.

No. 36,094.—E. M. JUDD, of New Britain, Conn.—Improved Cork Tightener for Corn Fixtures.—Patent dated August 5, 1862.—This invention consists in the employment of blocking piece that binds within a slotted box against the window casing, and retained with the necessary tension, the blocking piece being so formed that it can be sent and the cord slacked up when necessary.

Claim.—The blocking piece d, wings e e, and roller or knob f, formed substantial specified, when combined with the hollow or box-shaped slide b, as set forth.

No. 36,095.—G. A. KEENE, of Newburyport, Mass.—Improvement in Funnel Measure Patent dated August 5, 1862.—This invention is explained by the claim and engrand Claim.—A fluid measure with an opening and closing vent upon its side or bottom or with said measure a tunnel rendered water-tight by means of the packing a stantially as described and for the object specified.

No. 36,096.—G. H. KITCHEN, of New York, N. Y.—Improved Portable Appears of Manufacturing Illuminating Gas.—Patent dated August 5, 1862.—This apparatus of a furnace formed of a double casing of sheet metal, leaving a space for the reveashes, plaster, or other non-conducting material, for the purpose of retaining the last furnace. Under the retort, which is placed in the centre of the furnace, is a file of the

or other proper material, made thick in the middle and thinner at each end, so as to equalize . the action of the fire upon the same and prevent the retort from burning.

Claim.—First, the tile f, formed thicker in the middle than at the ends and applied in the

manner specified to equalize the heat upon the retort, as set forth.

Second, in combination with the said tile f a double casing a, to aid in retaining heat and equalizing the action thereof on the retort, as specified.

No. 36,097.—HENRY LOEWENBERG, of Boston, Mass.—Improved Fabric for Hats and Bonnets.—Patent dated August 5, 1862.—This invention consists in the use of cloth and cement, upon each side of which is placed a layer of paper. Upon the surface of one or both of these layers of paper is spread a layer of solution of starch, upon which, when dry, is spread one or more layers of copal or other varnish. After the varnish has become set the whole is to be embossed in imitation of braided straw.

Claim.—The above-described new or improved manufacture of hat or bonnet fabric, as

made of the materials and in the manner substantially as hereinbefore explained.

No. 36,098.—C. B. LOVELESS, of Syracuse, N. Y.—Improvement in Grates.—Patent dated August 5, 1962.—This grate is provided with a cast-iron hollow fire-back, communicating by means of pipes with a cast-iron chamber over the grate. Below the grate is also a chamber in the wall connected with the fire-back, in which are pipes leading to registers placed near the floor at each side of the grate for the admission of cold air, which, in its passage through the fire-back, becomes heated and passes out at the register opening above the grate.

Claim.—The cold-air registers a a, chamber D, vertical pipes C, chamber E, and hot-air register c, in combination with the open fire-grate B, when constructed substantially as

described.

No. 36,099.—W. H. MALLORY, of New York, N. Y.—Improved Fan-shaped Sail.—Patent dated August 5, 1862.—This invention consists in a method of constructing the truss for attaching a fan-sail to the mast, and also in a novel combination of the yard, truss, and swinging arms for spreading the sail. The outer ends of the arms are provided with eyes for the reception of lines or chains, through which the furling, reefing, and spreading the sail is

Claim.—First, the truss C, composed of the collars a a', socket b, arches c c, and plates d

d substantially as herein set forth.

Second, the combination of the yard B, truss C, and swinging arms D D, lines or chains EFEF, and divided sail GG, to operate substantially as and for the purpose herein specified.

No. 36,100.—G. A. MECHAM, of New York, N. Y.—Improvement in Suspender Fastenings.—Patent dated August 5, 1862.—This device is formed of a strip of elastic metal bent double, to each end of which is pivoted a button or washer so as to allow the button to turn on the metal strip. The sides of this strip are serrated or notched, so as to hold thereon an oblong band which is capable of being turned, so as to confine the buttons at a greater or less distance apart to suit various thicknesses of cloth.

Claim.—First, the employment in clasps of the buttons B, or their equivalents, so arranged as to allow the supporting part A to rotate or turn relatively thereto, substantially as and for the purpose herein described.

Second, the oblong band C in combination with the clasp A, substantially as and for the purpose herein set forth.

No. 36,101.—C. C. MOORE, of New York, N. Y.—Improvement in Application of Wind Power to Produce a Reciprocating Movement.—Patent dated August 5, 1862.—The object of this invention is to transmit in a simple manner the power from a wind-wheel shaft to the Exchinery to be driven, and by such means as will not interfere with the proper traversing of the cap, in which the bearings of the wheel shaft are placed, and at the same time admit of the journal of the wheel shaft having an equal pressure upon each of its bearings by having a pitman at each side of the cap, so as to insure an easy working of the moving parts with a comparatively small degree of friction.

Clsim.—The combination and arrangement with a wind wheel F of the double crank shaft G. cap C, shaft A, pitman e e, slide H, and band I with rods i i, attached as and for the pur-

puse herein set forth.

No. 36,102.—O. F. Morrill, of Chelsea, Mass.—Improved Apparatus for Gasifying and Burning Carbon Oils.—Patent dated August 5, 1862.—The receiving mouth of the vapor conduit is arranged above the lower part of the inner surface of the arm or vapor generator, in order to prevent the fluid in a liquid state from being driven from the generator into the conduit. This conduit is extended forward into the vaporizer and over the perforated dia-I hragm, so as to cause the tension of the vapor to be brought to a state favorable for its discharge into and through the mixer or burner, as well as to facilitate the heating of the liquid and vapor. The screw cap, with its central projection and annular recess, serves to retain the washer in place within the screw cap during, as well as after the removal of the latter from is place.

Claim.—The arrangement of the receiving mouths of the conduit D, above the lower part of the interior of the vaporizer, as described.

Also, the extension of the conduit D, as set forth, into the vaporizer B, and across and over

the burner or part E, thereof, substantially as and for the purpose set forth.

Also, the screw cap G, as constructed with the central core or projection d, and the annular recess a arranged within it, and to receive the washer when placed within the screw of the cap, as set forth.

No. 26,103.—Don J. Mozart, of New York, N. Y.—Improvement in Clock and Man Movement.—Patent dated August 5, 1862.—The inventor says: The object aimed at in the control of invention is to produce a clock or watch that will run a whole year at each winding up wilout increasing the size, weight, complication, or cost of the same. Reference to the specific

cation and drawings will be necessary for a description of the invention.

Claim.—The construction and arrangement of the mainspring A with two springs of the mainspring A with two springs of the mainspring A. each furnishing the only fixed attachment for the other, in combination with two days: wheels B B acting on opposite sides of a common pinion b, substantially as and for the pro-

pose herein specified.

In combination with the above I also claim the combined arrangement of the successive wheels and pinions B b, C c, and D d, so that the respective pairs shall directly produce to main divisions of time, in connexion with suitable dial plates, substantially as and for the purpose herein set forth.

In combination with the subject-matter of the first clause of the claim, I also claim the acstruction and arrangement of the escapement, substantially as and for the purpose bear.

specified.

No. 36,104.—WILLIAM OSMOND, of New York, N. Y.—Improvement in Sand Screen-Patent dated August 5, 1862.—The object of this invention is to insure a proper tension the wires between the cross rods, and prevent injury from the action of a spade upon its == face. The claim explains the nature of the invention.

Claim.—A sand screen having its wires d' secured to its cross rods c by twisting former around the latter, and either with or without the rings or collars f interposed between

the wires, substantially as described.

No. 36, 105.—G. B. OWEN, of New York, N. Y.—Improvement in Clock Cases.—Price dated August 5, 1862.—This invention consists in forming the case of the clock of a succession. piece of metal so spun or otherwise formed that it may receive the dial, and the latter benet to serve as a brace or strengthening partition for the case. The material of the case next front end is so swaged or spun as to form an external recess or rebate around the case. eash to fit into, and its extremity is bent over inwards towards the axis of the case and isward, so as to form a bevelled flange, which serves as a bearing for the dial.

Claim.—First, a clock case constructed of a single piece of sheet metal, and having its to tremity turned over and inward at the front end, when said case thus formed is used in over

nexion with the dial C placed within the case, as and for the purpose set forth. Second, the flange D, spun or struck up at the back part of the case A, in combination with the recess a and flanch b at the front end of the case, all formed of a single piece b

metal, as and for the purpose specified.

Third, connecting the sush B directly to the case A by means of the hinge F, formed. metal strap e passing around a wire f attached to the sash and through a slot g in the to the inner side of which it is secured; but this I only claim when the hinge is used with case A constructed as herein described.

No. 36,106.—J. M. PERKINS, of Cleveland, Ohio.—Improvement in Locks.—Patent August 5, 1862.—This invention consists in so constructing the lock that it cannot be unique from the outside even with a key, or picked by any instrument, when locked upon the insix the lock having two keyholes, that upon the outside being completely closed by a guad " the act of locking it upon the inside.

Claim.—Placing the keyholes on opposite sides of the lock, at unequal distances from bolt, in combination with the bolt and guard, constructed and arranged substantially as a

for the purpose set forth.

No. 36, 107.—ENOCH PIPER, of Camden, Maine.—Improvement in Preserving Anise Vegetable Substances.—Patent dated August 5, 1862.—This invention consists in the employee. ment of a chamber the walls of which are double, and filled with charcoal or other nonducting substance. Through this chamber pass tubes made larger at the top than it bottom, which contain the freezing mixture described in the patent granted to the said on March 19, 1861, and connecting at their lower ends with a tube extending across the tending the chamber. The upper ends of these tubes are connected to removable troughs of personal transfer of the chamber. supported upon the sides and provided with double covers filled with some non-conducsubstance. At one end of each of the tubes are attached two pipes extending through side of the case, one connecting with the extreme lower part of the tube, and the other &: near the top thereof, for the purpose of draining and cleaning the tube.

Claim.—First, the employment in refrigeratory apparatus of the removable receiving and distributing pan D, in combination with the series of descending tubes B, and suitable means of continuously draining the same, substantially as and for the purpose herein described.

Second, the tapering form of the descending tubes B, arranged to operate in combination with a receiving and distributing pan D and a cooling chamber M, substantially as and for the purpose specified.

Third, in refrigeratory apparatus, the arrangement of the open ascending drain tube F rela-

tively to the tubes C and B, in the manner and for the purpose herein set forth.

No. 36,108.—W. R. Pomeroy, of Millersburg, Ohio.—Improved Mode of Constructing Cartridges.—Patent dated August 5, 1862.—In this invention the ordinary cartridge is used, the upper end being cut off immediately over the powder. An outside wrapper of paper is then placed over the cartridge and secured to the same by twisting the end, so that it may be readily drawn off when the cartridge is to be used.

Claim.—The arrangement of the cartridge in such a manner as to obviate the necessity of biting, as heretofore, using for that purpose the wrapper C, arranged in the manner and for the

purposes described.

No. 36,109.-J. C. RAYMOND, of Brooklyn, N. Y.-Improved Rudder.-Patent dated August 5, 1862.—This invention consists in constructing the blade of a spare rudder to be carned on board the vessel, or the proper rudder of the vessel, in two separate parts, one of which is capable of being drawn into the other in such a manner as to permit the blade to be lowered or raised through the port provided in the deck and stern of the vessel for its stem and head to work in, without making the said port of larger size than is necessary for the head and stem, the separate parts of the blade being connected by pins and oblique slots, and that part which is drawn into the other being operated by a rod passing through the stem and head.

Claim.—The construction of the rudder blade of two parts B C, one of which is capable of being drawn into the other in such a manner as to allow the blade to pass through an ordi-

pary rudder port, substantially as and for the purpose herein specified.

Also, combining the inner portion C of the blade with the outer portion B, and with the stem and head by means of oblique slots g g, pins b b, and a rod D, passing upward through the stem and head, substantially as herein specified.

No. 36,110.—C. M. ROULLIER, of Paris, France.—Improvement in Driving Bands for Machinery.—Patent dated August 5, 1862.—This invention is explained by the claim.

Claim.—As a new manufacture, the production of articulated cables, bands or belts, for driving machinery or for other purposes, by utilizing waste cuttings of leather and forming such cuttings into links, which being mounted upon spindles, whether combined or not with metallic links, constitute a cable or band capable of adjustment in length and width without seam or ridge, substantially as herein set forth.

No. 36,111.—WILLIAM SELLERS, of Philadelphia, Pa.—Improvement in Tool Holders for Turning Lathes.—Patent dated August 5, 1862.—This invention consists in arranging a hingelike attachment of the tool holder to the cross slide of the slide rest of a turning lathe; the axis of this hinge being placed under, or nearly under, the centre of the tool-post or hold-down for the tool, and so constructed as to be capable of having any lost motion from wear or imperfection of workmanship taken up. The cutting point of the tool projects beyond the axis of this hinge, so that the action of the cutting tends to depress the cutting point, and to elevate the tail end of the hinge, a spring under the tail end acting in the same direction, thus insuring a constant tendency to move upward against a thumb nut on a screw passing through the tail and preventing it from rising.

Claim.—The construction of a slide rest for lathes wherein the cutting tool, in addition to 'he usual movements in a horizontal plane, has also a vertical adjustment, when this adjustment is made about a fixed centre placed between the cutting point and the adjusting screw,

ubstantially as described and for the purpose specified.

Also, the described method of forming a hinged joint for the purpose of giving vertical adjustment to the turning tool, by the employment of a block H and pin G, when constructed and imaged in connexion with the other parts of the rest, substantially as and for the purpose described.

No. 36,112.—WILLIAM SELLERS, of Philadelphia, Pa.—Improvement in Boring Mills for Metals.—Patent dated August 5, 1862.—In this machine all the framework above the table for tarrying the boring tube is dispensed with, and the interior of the bed is provided with a strong, vertical slide working in suitable bearings cast in the bed. This slide receives the cutter bar then its top and is provided with a rack, by means of which the vertical movement required the action of the boring is given. The rotating motion is given to the table by means of a bevel pinion on a horizontal shaft gearing with teeth in the under side of the table. The table is provided on its under side with an annular projection, which is fitted into a deep circular transfer of the table. calar corresponding channel in the top of the bed, by which means the table is provided with 2 good bearing, and is also accurately guided between the sides of the said channel.

Digitized by Claim.—First, the described construction of a boring mill for metal, in which the bear is actuated and held in position laterally by a vertical slide placed beneath the table of face plate of the machine, the whole being constructed and operating substantially in the manner and for the purpose specified.

Second, the employment, in combination with the table B, of a ring P, or its equivalent when arranged and operating substantially in the manner and for the purpose set forth.

No. 36,113.—WILLIAM SELLERS, of Philadelphia, Pa.—Improvement in Metal Plant Machines.—Patent dated August 5, 1862.—This invention consists in providing the u with a rack operated by a peculiar form of spiral gearing, which enables the driving selectors the bed diagonally, passing out in a position near enough to the upright to enabled driving belts to be within reach of the operator.

Claim.—The use of cogged gearing for planing machines, wherein one or the series of or have their contact surfaces formed by straight lines in the direction of their width, which other series have their contact surfaces arranged spirally about an axis which is placed at

angle to the line of motion of the first series.

No. 36,114.—EDWARD SPENCER, of St. Louis, Mo.—Improvement in Hand Stamps.—Paradated August 5, 1862.—This device is formed of two parts hinged together at one ct. shown in the engraving, the lower part being thicker than the upper, so as to receive a having upon each side a roller, upon which is wound a ribbon, passing over the demonstrated with printers' ink.

Claim.—The combination of the die B, the rollers C, and ribbon A, with a pair of squarmade substantially in the manner shown and described.

No. 36,115.—ENOCH STEWART, of Battle Creek, Mich.—Improvement in Current Nor-Wheels.—Patent dated August 5, 1862.—Upon a horizontal shaft is placed a wheel prowith buckets, which are attached by joints or hinges in such a manner that the buckets by their own gravity, adjust themselves in proper working position previous to entering water, and as they leave the water assume a closed position. Pins are secured to the mission wheel to prevent the buckets from swinging outward beyond a right angular position.

Claim.—A current wheel B, placed on a horizontal shaft A, and provided with bucked attached to its rims a a in a radial position by means of hinges or joints e, and used maken mexicon with the pins or stops h, all arranged to operate substantially as set forth.

No. 36,116.—B. F. STURTEVANT, of Boston, Mass.—Improvement in Projectiles for E. Ordnance.—Patent dated August 5, 1862.—In affixing the packing to the body of the jectile, the latter is first cast with an annular groove extending within and around its new ition and opening out of the same by means of a passage narrower than the groove and its neck are so arranged with the body of the projectile as to form an aboulder for supporting the front edge of the metallic packing which fills the neck and aboulder is formed with a series of cavities or teeth so that, in the process of the packing portions may run between the teeth, and thus interlock and prevent the packing turned laterally in the annular groove; the object being to prevent the rupus the packing and its detachment from the body of the projectile, either at the period of charge of the latter from a piece of ordnance or during its flight therefrom.

Claim.—In combination with the annular neck groove b, and the part of the exerpacking to enter the same, the annular enlargement or crossing groove a, and the

head or filling thereof.

Also, the arrangement of the two series of interlocking teeth with respect to the series packing and its holding grooves.

No. 36,117.—Alonzo Templeton, of Chicago, Ill.—Improved Shallow Water But-Patent dated August 5, 1862.—This invention consists in the employment of an endless track with an endless band provided with floats, in combination with the track and proper wheels of a boat, whereby the latter is adapted for use on land as well as upon water, the same being designed more especially for the navigation of shallow waters, or such as are observed by sand-bars. The rudder consists of two parts, provided at their lower ends with which are set at an angle with their posts and with each other. The posts are fitted to be a vertical movement in a transverse beam at the rear end of the flexible bottom, so that a rudder can be elevated from the water when necessary.

Claim.—First, the endless flexible band H, having the form of a shallow beat better and with floats d, in combination with the endless jointed track F, propelling wheels D it, and trucks or supporting wheels C C, when the whole is constructed and arranged in manner and for the purposes described, and in combination with the preceding and the land and marine boat, the compound rudder, hereinbefore described, consisting of possible wings f f', and rocking lever K, when combined and arranged to operate in the manner in

for the purpose specified.

No. 36, 118.—C. J. E. THOMPSON, of Providence, R. I.—Improvement in Adjustable Links-Patent dated August 5, 1862.—This link is formed of two parts of the form shown in the state.

graving, each part being provided at one side with a semi-cylindrical lug or projection and at the opposite side with an opening to receive the lug of its fellow part when the posts are fitted together: the object being to obtain a link which may be immediately applied to a chain as a substitute for a broken link or to connect any detached parts.

Claim.—Having the link made in two equal parts A, the faces of which are provided with openings b and projections a, which fit and operate together in the manner herein shown and

described.

No. 36,119.—Adam Weber, of New York, N. Y.—Improvement in Setting Gas Retorts.—Patent dated August 5, 1862.—This invention consists in the arrangement of suitable girders supported by cross-ties resting upon an arch or arches built over the fireplace in such a manner that each retort shall be supported by itself without resting or bearing upon any other retort, whereby those made of clay will be less liable to break, and each retort may be taken out and replaced without disturbing any of the others.

Claim.—The herein-described arrangement of setting clay retorts upon separate girders, said girders being supported by an arch or arches built over the fireplace, and arranged in the

manner and for the purpose substantially as set forth.

No. 36,120.-W. H. WHITE, of Dubuque, Iowa.-Improvement in Cutters for Sugar Cane, Arc.-Patent dated August 5, 1862.—This device is composed of one circular and two semicircular knives attached to a frame, a socket ferrule which receives the handle and shank of the frame, the same being held together by a key, and the whole so arranged as to readily trim the whole cane and cut off their tops at one operation.

Claim.—First, the combination of the two semicircular knives and the sickle-shaped knife, as seen at figure 2 and 3, and placed in the frame B B, or any two circular knives, whether made into one or more pieces of steel and held together by springs.

Second, the semicircular knives, as shown in figures 1 and 2 and letters a E P, and the

encircling of the cane with sharp edges, for the use and purposes herein described.

Third, the mode of fastening the shank S H into the socket ferrule, as seen in figure 4 and letters G and S and the dotted lines.

Fourth, the combination of the frame as seen at figures 3 and 6, and operated as above specified and for the purposes set forth.

No. 36,121.—BERNARD WISE, of Cincinnati, Ohio.—Improvement in Housing and Shipping Ice.—Patent dated August 5, 1862.—This invention consists in the employment of two endless belts or carriers supported upon causeways which are hinged at one end to a frame so as to render them adjustable as to inclination, and used in connexion with two or more rollers placed upon a level with the upper ends of the endless carriers. The lower ends of the causeways are provided with a chute attached by hooks to a rod so as to render them adjustable in height and inclination as circumstances may require.

Claim.—First, the arrangement of inclined and adjustable causeways C C', endless carners E F G, and rollers H, the whole being combined and operating together substantially

as set forth.

Second, in the described connexion with the adjustable causeway C, the hinged and selfadjusting discharging chute J K, operating as set forth.

No. 36,122.—LORENZ WOLF, of St. Louis, Mo.—Improvement in Ploughs.—Patent dated August 5, 1862.—This invention consists in the employment of an iron box attached to the under side of the plough-beam in the rear of the standard, in which box is arranged a plate c provided with a threaded lug or projection at its rear end through which works a set screw, the screw being secured transversely to the sides of the iron box. The forward end of the plate c is attached to the rear end of a strap extending under the plough-beam to its front end, where it forms the clevis. Upon moving the plate c, by the screw, to one side or the other, the direction of the ploughshare is correspondingly changed. A recess is made in the edge of the ploughshare and land side to receive the sod-cutter, which, when not in use, can be removed, and a block of iron of proper size be fitted to the recess.

Claim.—First, the iron box F placed under the beam with the arrangement of the plate C,

the lug e, and the screw G, working in the box in connexion with the standard D, the ploughbeam and ploughshare or its equivalent, substantially in the manner described and for the

purpose specified.

Second, providing the front end of the land side of the plough with a recess for the reception of the detachable sod-cutter J, and also providing attachable block J', to fill said recess when the sod-cutter is detached, the whole to be constructed and arranged as and for the purpose set forth.

No. 36,123.—James Fenning, of Danbury, Conn., assignor to Himself and James S. TAYLOR, of the same place.—Improved Coasting Guard for Boots and Shoes.—Patent dated August 5, 1862.—This invention consists in the use of a metallic tip fitted to the toe or heal of a boot or shoe, and secured to the foot by means of a strap attached to a clamp pivoted to the toe and heel tip, and passing over the feet, the device being more especially designed for the use of children in the sport called "coasting" or sliding down hill upon a sled,

Claim.—The use of adjustable metallic tips and heels, for the protection of boots and shoes, when constructed and operating in the manner and for the purposes herein specified.

No. 36,124.—T. G. HAROLD, of Brooklyn, N. Y., assignor to Himself and CHARLES PERLEY, of New York, N. Y.—Improvement in Locks.—Patent dated August 5, 1862.—This invention consists in the employment of two or more concentric tumblers, one or more of the same being provided with a pipe-shaped arbor passing the arbor of the other tumble. whereby the turning of one tumbler tending to move the other, prevents more than one tumbler from being set at a time, and the two tumbler arbors being together, it is nearly impossible to determine which one may be correctly placed for unlocking. Upon the still tumbler is a flange, whereby a hasp such as is used in a padlock or trunk lock can be had within the lock, and around said flanges are decoy or blind notches, so that the position of the true notches cannot be ascertained by feeling. The case of the lock is secured together. by a double screw flange that is prevented from turning by the entering of the hasp, but when the lock is open the case can be unscrewed and the lock changed in its combination.

Claim.—First, uniting and retaining the external plates a and d of the lock together by

means of the flanges b and c, screw threaded, or with lugs formed thereon as described, and

hasp e, substantially as set forth.

Second, two or more circular tumblers with turned-up flanges placed one within the other, and each connected with a separate dial or pointer, in combination with the lock case, con

structed as above set forth.

Third, in combination with circular tumblers with turned-up flanges and hasp e, formed as described, the decoy notches and teeth formed on the inner sides of the said flanges, for the purposes specified.

No. 36,125.—ELIZABETH HIGGINS, of Boston, Mass., assignor to HENRY HIGGINS, of the same place.—Dress Protector.—Patent dated August 5, 1862.—This article is intended for the use of infants, to protect their clothes and the dresses of their nurses, and is made from one piece of thin India-rubber cloth or oiled silk cut in a peculiar manner.

Claim.—As a new article of manufacture, the dress-protecting breeches constructed as de-

scribed.

No. 36,126.—John A. Preston, of Boston, Mass., assignor to the New England Glass COMPANY, of the same place.—Improved Bottle Stopper.—Patent dated August 5, 1862.—The nature of this invention consists in attaching the glass ball or valve to the stopper by means of a wire, chain, or thread, instead of a glass stem, as in a previous patent to the said Preston. in order to adapt the same to bottles of small size.

Claim.—The glass stopper B in combination with the glass ball or valve C, secured thereb by the wire d, or its equivalent, a chain or thread attached at s to the ball and connected a its lower end to a wire or cross brace which prevents the ball from falling entirely out from

the stopper, substantially as specified.

No. 36,127.—J. M. STIVEN, of New York, N. Y., assignor to Himself, MICHAEL TUME! and John Elder, Jr., of the same place.—Improvement in Air Valves for Steam Appendix.— Patent dated August 5, 1862.—The object of this invention is to provide a means for the admission of air to a coil of steam-pipe such as is used in a heating apparatus to prevent the formation of a vacuum when the same is allowed to cool down at nights, or when the steam is shut off, which is effected by the employment of a cylindrical valve between a seat 2214 pipe that enters within said cylinder valve, the latter being so balanced that the escape of a will not cause it to move, but the impact of water striking within said cylinder, or the presure of steam, forces the valve to its seat, and retains it there until the condensation of the steam, caused by the cooling of the apparatus, causes a sufficient vacuum to allow the almospheric pressure to open the valve and admit air to the pipes.

Claim.—Cylinder valve f, in combination with the pipe c and seat e, as and for the purposes

specified.

No. 36,128.—J. M. STIVEN, of New York, N. Y., assignor to Himself, MICHAEL TUMET. and JOHN ELDER, Jr., of the same place.—Improvement in Fire Regulators for Steam Bed-ers.—Patent dated August 5, 1862.—This apparatus consists of a cylinder and piston acted upon by water that is transmitted under pressure from the boiler through a pipe communication cating with the lower portion of the water space of the boiler, the said piston being provided with a rod and adjusting screw to regulate the action of a spring and cause the apparatus it be operative by means of different degrees of pressure in the boiler, and the motion this obtained and regulated is applied through the medium of a lever and suitable connexions. open and close the fire door, the ash door, the flue damper, or the cold air damper, thus calling the pressure in the boiler to become an automatic regulator of the heat through the ink to, or outlets from, the furnace, or both.

Claim.—The cylinder d, piston f, and chamber b, or its equivalent, in combination with the lever k and a communication to the dampers or doors employed in a steam apparatus in regulating the draught of air according to the pressure of water in the cylinder d, as set for halso, the screw p, spring l, and index, in combination with the cylinder d, piston f, rod f, and lever k for the pressure and as a first the screw p.

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and lever k, for the purposes and as set forth.

No. 36,129.—John Hatcher, of Brooklyn, Ohio, assignor to Himself and George Lyon, of the same place.—Improved Washing Machine.—Patent dated August 5, 1862.—In the top and centre of the frame is journalled a fluted roller, upon either side of which is an adjustable fluted rubber hung upon a journal at the inner end of adjusted rods passing through guides in the top of the frame, the said guides being pressed towards the roller by coiled springs around adjusting rods. The pressure may be regulated by means of a thumb-screw in a stationary nut on the frame.

Claim.—The adjustable rubbers D D, the springs F, and adjusting screws E, in combination with the fluted roller C, portable frame A, and hooks B, arranged and operating as and

for the purpose specified.

No. 36,130.—W. H. VAN NORTWICK, of Bordentown, N. J., assignor to Himself and R. S. VAN RENSSELAER, of the same place.—Improved Reclining Chair.—Patent dated August 5, 1862.—This invention will be understood by reference to the claim and engraving.

Claim.—First, so hinging the front of the seat and the lower end of the back to the legs, or to any substitutes for the same, that, on lowering the seat the back will be lengthened, and

on raising the seat the back will be shortened, as set forth.

Second, in combination with the back and seat hinged to the legs or their substitutes, as set forth, the arms F and G and rods H H, or their equivalents, whereby the movement of

the back and that of the seat are rendered simultaneous and dependent on each other.

Third, the self-locking device, composed of the rods M and M', lever L, and spring N, or their equivalents, when applied to and combined with the hinged seat E and arms G, sub-

stantially as specified.

No. 36,131.—WILLIAM ZETTLE, of Cincinnati, Ohio, assignor to Himself and John H. STALLO, of the same place.—Improved Jar for Provisions, &c.—Patent dated August 5, 1862.—The cover of the bottle is formed with a central boss upon its upper surface, and with two inclined projections leading from opposite sides of the boss. Upon these inclined projections are studs. The cover is secured to the bottle by means of a clamp, consisting of an arched middle portion with a central crimp, and two downwardly projecting portions provided at their lower ends with lips turning inwardly and extending under the rim of the bottle neck. The clamp is locked by turning it so as to bring its uncrimped portion opposite the studs on

Claim.—First, the combination of cover C, having the boss E, inclined planes F, and studs G, with the binding and locking clamp H I i J_j , for application to a rimmed jar, or like vessel,

in the manner set forth.

Second, the construction of the cover C, with wedge-shaped projections F F, in combination with the clamp H, and the neck of the jar, as shown and described.

No. 36,132.—John Absterdam, of New York, N. Y.—Improved Composition for Covering Projectiles.—Patent dated August 12, 1862.—The nature of this invention is explained by the

Claim.—A composition of sulphur and plumbago for coating, covering, banding and cementing cannon, mortar and small fire-arm projectiles, substantially as described.

Also, a composition of sulphur and steatite for coating, covering, banding and cementing cannon, mortar and small fire-arm projectiles, substantially as described.

Also, the employment of sulphur, in combination with mineral or earthy substances, to

form a material or composition for coating, covering, banding and cementing cannon, mortar and small fire-arm projectiles, substantially as described.

No. 36,133.—A. P. ALLEN, of Niagara, N. Y.—Improvement in Railroad Journal Lubricator.—Patent dated August 12, 1862.—Within an ordinary journal box is a chamber closed at the bottom and open at the top, to receive the cap and brass piece within which the axle revolves. Directly under the said journal is an oil reservoir provided with one or more rollers, which are in contact with the journal, so that as the rollers revolve the oil is carried up and applied to the journal. The reservoir is kept up to its proper position by means of springs bearing upon its under side.

Claim.—The use of one or more rollers revolving in the reservoir E, together with the springs L L, or their equivalent, when used in combination with the oil-tight chamber C,

substantially as and for the purpose specified.

No. 36,134.—S. F. AMBLER, of Brooklyn, N. Y.—Improvement in the Manufacture of Aerated Bread.—Patent dated August 12, 1862.—This invention consists in the use in the manufacture of unfermented bread, of carbonic acid gas made by fermentation from saccharine or farinaceous matter, instead of that made from sulphuric acid and the carbonate of lime.

Claim.—In the manufacture of unfermented bread, the use or employment of the carbonic

scid gas made as herein fully described, for the purposes specified.

No. 36,135 .- E. BEEMAN, of Owego, N. Y .- Improvement in . Hand-Drills .- Patent dated August 12, 1862.—This invention consists in rotating a drill-stock in a brass frame constructed as shown in the engraving, by means of a cord passed around a wheel or pulley upon the drillstock, and also passing around pulleys in the frame and one near the handle down

Claim .- The manner of rotating a drill-stock by means of a cord passing around it and around pulleys, making it a convenient and durable tool, as above described.

No. 36,136.—T. E. C. BRINLEY and J. G. DODGE, of Louisville, Ky.—Improvement is Ploughs.—Patent dated August 12, 1862.—This invention relates to a method of attaching a landside or bar to the short landside or mould-board so as to admit of the landside being readily detached, if broken, and a new one adjusted in its place. A brace rod s is so arranged between the handles as to insure a firm fastening of one of the handles into loops at the res of the mould-board and serve as a brace between the mould-board and heel of the landside.

Claim.—The lock joints, as shown in fig. 5, shown by the letters def and g, in connexion Also, the arrangement of the brace, round or rod a, so that it operates both as a brace and

fastening of the handle A' into the loops c c.

No. 36,137.—W. L. Burt, of Cambridge, Mass.—Improvement in Street Railway Carriages.—Patent dated August 12, 1862.—The object of this invention is to dispense with a switch at the junction of street railways and a turnout thereof, and it consists in placing a deflector upon the ground near the junction of the outer or inner rail, and projecting above the rail, so that a roller placed in front of the wheels upon an arm extending down from s lever frame supported upon the front axle and coming in contact with the deflector shall give the car a direction to the proper track. The lever frame is connected to a pitman in such a manner that it can be operated by the driver's foot.

Claim.—The combination and arrangement of the roller or rollers D with the carriage or the truck frame and its appendages, and also with the deflector I, arranged with the main track and the turnout, as set forth, the whole being so as to operate substantially as specified

Also, the application of the lever frame E to the carriage axle and its wheels, in manner w as to be capable of operating with respect to the same substantially as described.

No. 36,139.—VALENTINE CHASE, of St. Mary's Parish, La.—Improvement in Tenoning Machines.—Patent dated August 12, 1862.—The nature and object of this invention are explained by the claim.

Claim.—The combination of saws upon the adjustable plates, or their equivalents, by which the sides and shoulders of tenons may be cut at one operation, and whereby tenons of different sizes are made; the tenon being cut and completed by one movement of the tim-

ber, all substantially as described.

Also, in combination with the saws and adjusting plates, by which the size of the tenor may be varied, the adjusting slots and screws in and shifting position of plates 3 and 4, by means of which the edges or peripheries of the saws which form either side and shoulder of the tenon may be adjusted to the same vertical line, and thus compensate for the wear of the saws, substantially as described.

Also, the construction and arrangement of the plates 1, 2, 3, and 4, operated in the map

ner and for the purposes specified.

No. 36, 139.—N. B. COOPER, of Gratis, Ohio.—Improvement in Cultivators.—Patent dated August 12, 1862.—The standards to which the shovels are attached are secured to a slotted beam A in such a manner as to admit of their being moved in the same. The beam A's connected at one end to a rod B provided with holes at its front end fitting upon a pin, by means of which the slotted beam can be adjusted to rows of different widths.

Claim.—The arrangement of the slotted beam A, adjustable rod B, and beam C, for the

purpose and in the manner herein set forth and described.

No. 36,140.—J. H. COTTON, of Boston, Mass.—Improvement in the Manufacture of Irva Tubing.—Patent dated August 12, 1862.—In this invention short and thick iron tubes are used, which, after being annealed, are tinned inside and outside. They are then drawn when cold through dies upon steel mandrels, whereby they are increased in length and decreased in thickness to the desired degree.

Claim.—Coating iron tubes, as set forth, and subsequently drawing them, while cold, through dies, in the manner specified, thus producing a tube perfectly cylindrical and smooth

upon both its inner and outer surfaces.

No. 36,141.—R. T. CRANE, of Chicago, Ill.—Improvement in Steam or Hot Air Pipes-Patent dated August 12, 1862.—Between the ends of the heating tubes are arranged one or more partitions combined with two or more inlets and two or more outlets in such a manner that steam or hot air admitted through either inlet, passes through a portion of the pipes only, by which means a portion of the pipes can be heated, while the rest remains cold, and the heat be thereby regulated at pleasure.

Claim.—The arrangement of one or more partitions a a' in the interior of the T-connexions B B', and between the ends of heating pipes A A', in combination with inlet openings de

and outlet openings d' c', substantially as and for the purpose shown and described.

No. 35,142.—L. and P. K. DEDRICK, of Albany, N. Y.—Improvement in Horse-power Windlass.—Patent dated August 12, 1802.—This invention is designed to be applied to the

lifting of weights and the operating of presses such as have their followers arranged to work from the bottom of the press box upwards, whereby the weights may be lowered at any speed, and the follower allowed to fall when necessary without backing the horses, and it consists in so constructing the machine and connecting it with the horse-power as to admit of its being released from the latter at any moment at the will of the attendant.

Claim.—First, the combination of the wheel B, sweep D, and slide F, or its equivalent, sranged as shown, to admit of the connecting of the wheel to the sweep and the detaching of

the former from the latter, for the purpose herein set forth. Second, the cross-bar E, attached to the sweep D, and provided with shoes g g, arranged relatively with the wheel B to serve in connexion with the sweep, as a brake for the latter, as set forth.

Third, the slide F, attached to sweep D, and the lugs d, and flanch c, on the wheel B, arranged as shown, to admit of a ready connexion between the sweep and wheel, and to keep

the former in proper position with the latter, as set forth.

No. 36,143.—Otto Ernst, of New York, N. Y.—Improvement in Apparatus for giving Feat to Barrels of Beer and other Liquids.—Patent dated August 12, 1862.—This invention consists of an apparatus whereby the pressure from a head of water is made to force beer or other liquid out of a barrel into a glass or tumbler through the agency of air, which is effected by means of a pipe communicating with any suitable supply of water, and provided with a faucet, from which latter leads a pipe connecting with a two-way bung or plug c introduced into a large vessel. This plug c forms an inlet for the water and an outlet for the air by a pipe to a flexible tube that leads to the beer barrel, where it is introduced by means of a plug or bung.

Claim.—The arrangement of the vessel d, water pipe b, air pipe c, and two-way plug c, in combination with the barrel f, of beer or other liquid, for the purposes and as specified.

No. 36,144.—Daniel Fasig, of Rowsburg, Ohio.—Improvement in Lifting Jack.—Patent dated August 12, 1862.—Within a socket or stock, provided with a rack and a spring stop, is a vertical rack bar B, attached at its upper part to a lever. At the end of this lever is also pivoted a swinging pawl bar D, engaging with a rack on the rear of the socket, and operated by a rod in a groove upon the upper side of the lever, so that by the movement of the lever the upper ends of the rack bar B and pawl bar D will alternately act as fulcra to the lever in raising the article to be elevated.

Claim.—The combination of the sliding rod g and swinging pawl bar D, with the lever E, rack bar B, hollow rack stock A, and spring eatch b, as and for the purpose herein shown

and described.

No. 36, 145.—THOMAS FISLER, of Camden, N. J.—Improved Circular Washboard.—Patent dated August 12, 1862.—This invention consists in the employment of two circular racks,

arranged one within the other, and so as to be readily adapted to an ordinary wash-tub.

Claim.—The combination of the two circular racks, so as to form a circular washboard, to be used in connexion with the wash-tubs in common use, arranged substantially as set forth and for the purpose specified.

No. 36, 146.—B. W. FRANKLIN, of New York, N. Y.—Improved Vulcanizing Heaters or Boilers.—Patent dated August 12, 1862.—This apparatus is formed of two or more seamless cups or vessels fitting one within the other and provided with a cover. The cups or vessels are flanged at their upper ends and secured to a ring or collar. The cover is provided with a groove to receive a packing, and with ears or nuts projecting at an angle so as to receive nuts, the inner sides of the heads of which bear against the collar, by which means the cover is firmly secured to the cups.

Claim.—The combination of two or more seamless cups or vessels H H and the cap or cover C. as above described, the whole, when in combination and secured by the bolts or screws E E E E, constituting a vulcanizing boiler, substantially as set forth and specified.

No. 36,147.—D. L. GROVER and L.S. WRIGHT, of Groton, N. Y.—Improvement is Churns.—Patent dated August 12, 1862.—This invention consists in the employment of two sets of beaters, the outer edges of which diverge from the upper towards the lower ends, and attached to shafts geared to revolve in opposite directions to each other, in combination with corresponding stationary beaters placed in each corner of the churn; by which means the cream will be violently agitated at the bottom, and gradually less so towards the top, so that the butter as it forms can be easily taken from the tub.

Claim.—The combination of the revolving conical beaters F and G, running in opposite directions, with the stationary beaters L placed in the corners of a square churn, as and for

the purposes described.

No. 36,148.-M. F. HARDY, of Seward, N. Y.-Improvement in Revolving Ordnance. Patent dated August 12, 1862.—This invention relates to that class of breech-loading ordnance in which is employed a horizontal circular turntable, with a series of breech-pieces or

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charge receivers mounted around the outer upper rim thereof, so as to be successively brought in line with and forced into the open rear end of the cannon.

Claim.—First, the locking yoke and spring hammer combined, substantially as and for

the purpose set forth.

Second, the combination of the turntable F, slides E, series of breech-pieces G G, cannon C, and combined yoke and hammer D D', substantially in the manner and for the purposes described.

Third, the combination of the hinged yoke D, crank shaft I, cams J J, connecting red j, and hand lever K, with the cannon C and turntable F, substantially in the manner and to

the purposes described.

Fourth, the lever M, with its pawl o and projection o4, in combination with the bevel notches p of the turntable, and the incline o2 of the strap f and the stop o3 of the slide, substantially in the manner and for the purposes described.

Fifth, the combination of the forked lever L, stock B, slide E, and turntable F, substan

tially in the manner and for the purpose described.

Sixth, charging the breech-pieces with balls, substantially as described.

Seventh, the construction of the ball-charging device, substantially as described.

No. 36,149.—Moses C. Haight, of Buffalo, N. Y.—Improved Ankle Support for Skates.—Patent dated August 12, 1862.—This device is designed as a leg supporter for the use of skaters, and consists of a plate fitting under the heel of the boot and attached at its rear end to a metal support extending up the back of the leg to a point near the knee joint, where it is secured to the leg by a strap.

Claim.—The device consisting of the parts A B C D E F and G, constructed and arranged

as described.

No. 36,150.—C. I. HAYES and MARTIN NEWMAN, of Unadilla, N. Y.—Improved Machine for Edging and Slitting Boards.—Patent dated August 12, 1862.—This invention consists in the employment of two circular saws upon one mandrel, one of which is so arranged as to be rendered adjustable longitudinally upon the mandrel for the purpose of edging boards of different widths, making both edges parallel with each other.

Claim .- The construction of a machine, as described, having two saws on one mandrel

one of which is movable and adjustable, as and for the purpose described.

No. 36,151.—John Hewitt, of Carmichael, Pa.—Improvement in Churus.—Patent dated August 12, 1862.—This invention will be understood by reference to the claim and engraving. Claim.—The combination and arrangement of the devices $C \ d \ e \ E \ f \ g \ B \ D \ i \ i \ b$, with the blades $H \ H' \ H2 \ H3$, and pins $I \ I$, and the churn box A, all constructed in the manner and for the purpose described.

No. 36,152.—B. B. HOTCHKISS, of Sharon, Conn.—Improved Metallic Defensive Armon.—Patent dated August 12, 1862.—This invention consists in overlapping inclined and superimposed armor plates, so that a portion of the edges of each only is exposed, and that such edges, when struck by a flat-headed bolt or other projectile having sufficient power to penetrate, will become detached and form a slose or false joint for the projectile, from which is glances upon the next plate, where it is also deflected and prevented from doing other damage.

Claim.—The arrangement of the plates 1 2 3, &c., upon the inclined sides of vessels and fortifications, so that the lower plates shall overlap upon the higher, in the manner and for

the purpose herein set forth.

No. 36,153.—F. J. Huber, of Cleveland, Ohio.—For Artificial Stone.—Patent dated August 1931 1939.

12, 1862.—The nature of this invention is explained by the claim.

Claim.—An artificial stone composed of lias lime, coal ashes, and pulverized bricks, when this composition is used with or without the additional ingredients, substantially in the manner and for the purpose herein described.

No. 36, 154.—F. J. Huber, of Cleveland, Ohio.—For Artificial Stone.—Patent dated August 1969. This invention is combained by the claim.

12, 1862.—This invention is explained by the claim.

Claim.—An artificial stone composed of lias lime and slate clay as the principal component, when the composition is prepared with or without the additional ingredients, substantially in the manner and for the purpose herein described.

No. 36,155.—F. J. Huber, of Cleveland, Ohio.—Improvement in Building Blocks.—Putnt dated August 12, 1862.—The grooves of the blocks within the wall and between the seven blocks are filled with the mortar which is used in building the wall, thus serving to increase its strength.

Claim.—Forming a rectangular moulded building block with oblique grooves on two or now of its vertical sides, said grooves being at an angle with each other and with the edges of the building block, so as to form continuous oblique grooves across the face of the wall when had in the usual way of bricklaying, substantially in the manner and for the purposes described.

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No. 36,156.—ALFRED INGALLS, of Independence, Iowa.—Improvement in Sugar Cane Crushing Mills.—Patent dated August 12, 1862.—This invention consists in arranging a series of circular cutting blades upon shafts in such a relation to a pair of crushing rollers as to cause the cane to be slit previously to entering between the crushing rollers, thereby allowing the slitted cane to be spread over a greater space upon the rollers than the whole stalks would

Claim.—The revolving cutters C C, arranged and operated in combination with the pressing rollers A A', as specified.

No. 36,157.—E. T. INGALLS, of Haverhill, Mass.—Improved Hand Pegging Machine.—Patent dated August 12, 1862.—This invention consists in arranging the awl and peg driver at an acute angle with each other, and so as to operate through one and the same hole leading out of the bottom of the peg-wood carrier.

Claim.—The above-described improved pegging machine, as made with the peg driver and the awl, arranged with respect to each other, and to operate in one hole, in the manner sub-

stantially as hereinbefore specified.

No. 36,158.—I. B. JONES, of Xenia, Ohio.—Improvement in Cultivators.—Patent dated August 12, 1862.—This invention consists in the employment of a laterally sliding plough frame placed within a mounted frame, and operated by a rock shaft, toothed segments, and racks under the control of the driver, so as to be readily made to conform to the unevenness of

Claim.—The laterally moving or adjustable plough frame D, when operated as shown, to wit:

by means of the tooth segments E E on the rock shaft F, gering into the racks d d on the frame D, and the latter fitted in the mounted frame A, as and for the purpose set forth.

Also, the manner of attaching the plough standards H to the frame D, to wit: by placing the standards in guides i, attached to pendants I secured to the frame D, and securing the standards at any desired height by means of the catches J, as and for the purpose specified.

No. 36,159.—W. M. JONES and S. E. TYLER, of Horicon, Wis.—Improvement in Seeding Machines.—Patent dated August 12, 1862.—This invention relates to a seeding machine for sowing seed broadcast, and it consists in a means for discharging the seed from the seed box or hopper, whereby the discharge of the seed may be graduated as desired, so as to sow a greater or less quantity on a given area, and the seed distributing apparatus be prevented from becoming choked or clogged, and also from being broken or bruised in being discharged, and at the same time be scattered or sown broadcast. The upper part of the seed cylinder and buckets is covered by a curved plate having upon its inner surface a recess to receive a

curved plate, which serves as a gate, which is made to move with the seed cylinder. Clsim.—First, the cylinder I, with the curved buckets k attached, secured to a rotating and sliding or longitudinally adjustable shaft E, in connexion with the stationary head J and semicylinder K, provided with an opening l, all being arranged within a suitable box D, and in such relation with a seed box C as to operate in the manner and for the purpose herein set

Second, the curved plate or gate L, placed or fitted within the semi-cylinder K, connected to the cylinder I, and arranged in relation with the opening l of the semi-cylinder K and the

buckets k, to operate as and for the purpose specified.

Third, the arrangement of the clutch F, collar e, pinion f, and shaft E, as shown and described, for the purpose of admitting of said shaft being thrown in and out of gear with the wheel B', and also admitting of said shaft being adjusted longitudinally when desired, as set

No. 36,160.—ALEXIS LONGETT, of New York, N. Y.—Improvement in Velocipedes.—Patent dated August 12, 1862.—This invention consists in placing the propelling wheels of a light vehicle upon independent axles and communicating motion to them separately by cranks

through intermediate gear wheels and sheaves.

Claim.—Mounting the carriage body on three wheels C C E, arranged on independent axles a, and imparting motion to two of said wheels C C separately by cranks J, through the medium of gear wheels ef, bands nq, and grooved pulleys or sheaves Kms, secured, respectively, on independent axles lao, when said parts are arranged to operate in the manner and for the purposes specified.

No. 36, 161.—P. W. MACKENZIE, of Jersey City, N. J.—Improvement in Cantering Propellers.—Patent dated August 12, 1862.—This invention consists in the arrangement of a unirersal joint connecting the hind legs of the horse, or the fulcrum of the vibrating toy, to the steering wheel in combination with a suitable steering gear, in such a manner that the steering wheel can be turned in either direction without interfering with the cantering motion of the horse. The upper ends of the fore legs are connected to the body of the horse by means of hinges or pivots, and their lower ends to cranks in the axle of the fore wheels in such a manner that during the operation of the toy, the motion of the fore legs of a cantering horse is imitated. Upon a platform under the horse's body is a foot-rest, or "false stirrup," which,

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in connexion with the handle of the steering gear attached to the front part of the horse's body, is used to raise up the body of the horse, when the weight of the rider will again depress the same, alternating movements serving to keep the horse in motion. By means of double-armed levers and diagonal cords connecting the opposite ends of the levers, in combination with the handle and steering wheel, the horse can be turned to the right and left as desired.

Claim.—First, the arrangement of the universal joint a, in combination with the hind legs A', or the fulcrum of the cantering toy, and with the steering wheel B, constructed and operating substantially in the manner and for the purpose described.

Second, the hinged legs A", in combination with the body of the horse and with the cranks as and for the purpose specified.

Third, the arrangement of the foot-rests or false stirrups H, in combination with the handle I.

constructed and operating substantially as and for the purpose set forth.

Fourth, the arrangement of the double-armed lever $e \hat{g}$ and diagonal cords f, in combination with the handle I and steering wheel B, constructed and operating substantially as and for the purpose shown and described.

No. 36,162.—Melchor Mellinger, of Dayton, Ohio.—Improved Clothes-Washing Machine.—Patent dated August 12, 1862.—This invention consists in a combination of a corrugated plunger and press-board, the latter being provided with a slide, to which is attached a rod connected with the working lever by a link or hook. By detaching the hook the slide is readily withdrawn from the press-board, and the plunger is raised up out of the suds but

by means of the lever, so as to admit of the clothes being wrung. Claim.—The slide k fitted in the press-board H, and having the connecting rod I attacked for the purpose of admitting of the removal of the connecting rod I and hook J for the adjust-

ment of the plunger F out of the suds box, as described.

No. 36,163.—GORDON MCKAY and R. H. MATHIES, of Boston, Mass.—Improvement is Sewing Machines.—Patent dated August 12, 1862.—The nature and object of this invention

are explained by the claim.

Claim.—So arranging and combining with a sewing mechanism, the projecting rotating horn which encases and sustains the whirl or looper, and which supports the stock, that sail horn can be rotated with the stock upon it, in reference to the needle and feeder, when it is desired to have the seam conform to curves or angles, instead of turning the stock upon the horn, or of turning the needle and feeder with reference to the horn. Also combining with the rotating projecting horn s, so as to rotate with it, a thread or bobbin, operating substantially as described, and also combining with the rotating projecting horn s, so as to rotate with it, a tension device which acts upon the thread, operating substantially as described.

Combining a rotary whirl or looper with a rotating horn, so that while the whirl has an intermittent rotary movement with relation to the needle, the horn can be rotated without changing the relative relation of the whirl and needle to each other, or, in other words, so that rotation of the horn shall not rotate the whirl, though supported by and held in the hom, and so that rotation of the horn shall not affect the intermittent rotary movement of the whirl

Combining with the needle carrier of a sewing mechanism a lever which reciprocates said carrier, and which has its fulcrum so arranged as to be made movable for the purpose of

changing the throw of the carrier.

The means described for varying the stroke of the needle, to conform to change in the length of the stitch, the same consisting of a stop made adjustable on the fulcrum bar to vary

the distance between said stop and the fulcrum.

Regulating the amount of the thread drawn by the needle from the spool, so as to conform to varying thicknesses of stock, by automatically adjusting or varying the strokes of the needle by the thickness of the stock, at or near the point where the needle is operating, by substantially the means described, or any equivalents thereof.

So operating the presser foot as to lift it a fixed amount from the surface of the stock no matter what its thickness, to relieve the thread from pinch between the bed and the under surface of the stock while the thread is drawing through the stock, substantially by the means

described, or any equivalents therefor.

So combining the presser foot with the needle and the parts connected therewith, substantially by the means described, or by any equivalents therefor, that the resistance offered to the upward movement of the needle rests upon the presser to prevent it from being forced upward by the upward strain upon the stock, the presser being prevented from downward motion substantially as shown.

Combining the lever which operates the presser with a movable and adjustable fulcrum. So that more or less lift can be given the presser by the positive movement imparted by a can

or other equivalent motor.

So combining the closing slide of the needle and the needle, substantially by the means described, or any equivalents therefor, that the stroke of the slide shall be increased or dirinished automatically as the stroke of the needle is increased or diminished.

So combining the closing slide of the needle with the needle, substantially by the mean described, or by any equivalents thereof, that said slide is so placed as to cover the eye of hook of the needle while emerging from the stock, and to move with the needle, keeping its

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eye or hook covered till at or near the termination of the upward stroke of the needle, when the slide moves relatively to the needle, uncovering its eye, and then, by moving downward with the needle, keeps its eye uncovered till the needle punctures the stock.

The arrangement of the separate instruments, the presser and feeder, directly in front of the hook of the needle, in proximity thereto, in the plane of the vibrations of the feeder, and above the stock to be sewed, so as to operate on the upper surface thereof, said plane passing through the axial line of the needle, substantially as described.

Controlling the extent of the feeding action of the feeder by making the presser adjustable toward and from the needle in the plane of vibration of the feeder, and by constructing the

preser with an inclined surface next the feeder, substantially as shown.

The combination and arrangement of the spring l^2 with the parts connected with the needle lever, so as to counterbalance the weight of said parts, so as to retain the needle at its up stoke till the check j^2 operates on the plate d.

No. 36,164.—CHARLES MONSON, of New Haven, Conn.—Improved Rotary Engine.—Patent dated August 12, 1862.—This invention consists of a series of cylindrical vessels or chambers connected together and provided with a central tubular shaft so applied as to be capable of revolving freely. Within each chamber two or any suitable number of curved arms are made to project from the shaft. On the outer end of the first chamber of the series is attached a steam chest which surrounds the shaft and receives a lateral induction pipe, through which the steam passes into the chambers and through a series of openings and the curved arms successively, until it has passed through a series of chambers to the eduction passage. The steam thus acting upon the curved arms causes them to revolve and carry the axle, the design being to increase the motive power by the combination of a number of arms or wheels under the influence of the same current of steam or other motive element.

Claim.—A repeating rotary engine, constructed in manner or so as to operate substantially as described, viz., of two or more sets of curved arms C, or their mechanical equivalents, a series of two or more tight chambers or vessels A A1 A2, and a shaft, or its equivalent, divided into separate chambers, and provided with induction and escape passages, the whole being arranged substantially as set forth.

No. 36,165.—A. F. W. NEYNABER, of Philadelphia, Penn.—Improved Pendulum Paddles.—Patent dated August 12, 1862.—This invention consists in the combination and arrangement of links, levers and chains, with a pair of pendulous paddle arms working in opposite directions so as to operate said paddle arms alternately and cause the paddles attached to the arms to open when the latter are moved in one direction, but to close and press against the water when they are moved in an opposite direction, thus exerting a continuous and even pressure against the water. By an arrangement of devices the action of the paddles may be reversed without reversing the motion of the engine which drives the apparatus.

Claim.—In combination with a pair of pendulum paddles, the arrangement of the levers and links F E I, cam D, rod S, and paddle a, substantially in the manner and for the pur-

poses herein described.

Also, in combination with a pair of pendulum paddles, the arrangements of the shafts, levers and links K M N P R T, chains Q, cam D, and bars S, for the purpose of reversing the action of the paddles, when constructed and arranged substantially in the manner and for the purposes herein described.

No. 36,166.—HENRY PARSONS, of Waterloo, N. Y.—Improvement in Harness for Looms.—Patent dated August 12, 1862.—This invention consists in securing the heddle bars to the frame by means of flat springs which are sunk into the wood and secured at one end by secure, while the other or elastic end rests over the extremity of the heddle bar, fitting in its secket or mortise, and provided with a pin which passes through a hole in the end of the heddle bar and thus secures it in place. The opposite ends of the heddle bar are threaded and secured by nuts at the outer side of the frame, which nuts are kept from turning by means of a flat spring, the loose end of which presses upon one of the sides of the nut when screwed in its place.

Claim.—Securing the heddle bars to and detaching them from the frame by means of the prings C C, pins c c, and depressions ff, the whole arranged, combined and operating sub-

ally as and for the purposes herein described.

A so, in combination with the nut h, the spring G, when the same are respectively connected in the heddle bars and frame, substantially as herein described.

No. 36,167.—MARTIN RAE, of Manchester, England.—Improvement in Lamps.—Patented England September 16, 1861.—Patent dated August 12, 1862.—This invention consists in rawing a current of air to impinge against the flame of a lamp by means of a small lamp, tajer, or other heat-producing agent, placed within or under a tube or tubes communicating with the burner, which, upon being lighted, causes an upward current of air towards the tame at the burner.

Claim.—The employment or use of a lighted lamp, taper, or other heat-producing agent at the bottom of or into the air tube or air tubes of the lamp, arranged to operate in the manner as and for the purpose herein set forth.

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No. 36,168.—D. C. RAND and M. WADHAMS, of Perinton, N. Y.—Improved Water-tirk Casks.—Patent dated August 12, 1862.—The object of this invention is to render a call which is designed to contain materials that readily absorb moisture, impervious to ware either when immersed or by the gradual absorption of the atmosphere, which is sought to . effected by coating the interior surface of the cask with a resinous cement so as to therought fill the pores and joints.

Claim.—A close cask, rendered impervious to moisture by a coating of concentrated :44

tar, substantially as and for the purposes herein set forth.

No. 36,169.-J. L. REID, of Van Wert, Ohio.-Improvement in Bee Hives.-Paten: 12: August 12, 1862.—This device is composed of an inclined screen whose meshes are too infor a bee to pass through, covering a box extending over the bottom of the bee spartner. The door of this trap is wide so as to admit moths which lay their eggs among the and droppings that fall through the screen, when both moths and eggs may be easily destroy.

Claim.—The combined moth and robber trap and ventilator, Fig. 3, constructed and span

in the manner and for the purposes specified.

Also, the combination of the moth and robber trap and ventilator with the hive, consuced substantially as set forth.

No. 36,170.—Anson Rowe, of Atallissa, Iowa.—Improvement in Handles for Milles Picks.—Patent dated August 12, 1862.—The head of the handle or stock is constructed an adjustable key or block, so arranged that the mortise which receives the double upon pick may, without any special manipulation on the part of the operator, be adapted to the precise form of the pick so that the latter can be firmly secured in the handle, the combeing to admit of picks which are forged by hand without the aid of gauges, being ::-

adapted to the stock or handle without the necessity of a nice adjustment.

Claim.—The adjustable key or block B, fitted in a slot c, in the hub or head below. handle or stock A of a millstone pick, substantially as and for the purpose herein set 1.754

No. 36,171.—G. S. Rust, of Chester, Ill.—Improvement in Convertible Apple Mills, 1:-Patent dated August 12, 1862.—This invention consists in the construction and arrange. of certain devices which in certain relations with a proper framing, constitute a mediant grinding apples, and by the removal of certain parts and the substitution of other.

machine may be employed for shelling corn and for cutting straw.

Claim.—First, the combination of the rocking beam L, crank shaft E, disconnects pitman F, shaft H, and cylinder heads a a, for the purpose and in the manner described Second, the combination of the rocking beam L, crank shaft E, and disconnectable pro-

F, constructed and arranged in the manner and for the purpose set forth.

No. 36,172.—SYLVANUS and A. M. SAWYER, of Fitchburg, Mass.—Improvement is !! bined Time and Percussion Fuze for Explosive Shells.—Patent dated August 12, 1882—invention consists in a method of confining in one fuze stock both a time fuze and a persion fuze, so that the explosion of the shell may be made to take place either before of the striking an object.

Claim.—The combination in one fuze stock of a percussion fuze with a time fuze, sub-

tially as described.

No. 36,173.—J. L. SCHOONMAKER, of Galupville, N. Y.—Improved Washing Machine. Patent dated August 12, 1862.—This invention consists in applying to the convex rubber of washing machine a weight which is placed above the cross-bar and connected to the OCL rubber by means of rods placed one on each side of the same for the purpose of proces the rubber from rising. A weight is also placed at one end of the convex rubber was a

counterbalance for the handle.

Claim.—The application of the weight F to the convex rubber D, in combinates **

the counterbalance weight L, substantially as and for the purpose specified.

No. 36,174.—J. Q. A. SCOTT, of Pittsburg, Pa.—Improvement in Magazine Fin-479.—Patent dated August 12, 1862.—This invention relates to the supplying of carridges. barrel through the breech, from a magazine in the stock, by means of an endless chaning in the magazine, and the invention consists in the employment of certain devices bination with the breech for the purpose of giving the said chain the necessary moverand conveying the cartridges from the belt into the chamber of the barrel. In combiwith the cartridge magazine in which the endless chain feeder works, and arranged at its is a second cartridge magazine separated from the first by a partition which is movab.e: purpose of transferring its cartridges into the first one as soon as it is emptied.

Claim.—First, the combination of the magazine F, containing an endless chair the longitudinally moving breech pin D, the side passage &, the spring a, and the the whole arranged and operating substantially as herein described.

Second, the employment for locking and unlocking the breech pin D, and open. breech of a bolt f, lever E, and link e, the whole combined with the breech pin, and a; in relation to a hole or notch g in the fixed portion of the breech, and operating as beset forth. Digitized by GO

Third, the combination with the endless chain feeder and its magazine F, of a second carridge magazine L, constructed with partitions tt corresponding with the feeding plates of the endless chain and a sliding plate M, or other movable partition, the whole arranged substantially as herein specified, to allow the cartridges to be transferred in a proper manner from the interior of one magazine to the endless chain of the other one, as herein set forth.

No. 36,175 .- S. J. SEELY, of Brooklyn, N. Y. - Improvement in Sheet Metal Casks .- Patent dated August 12, 1862.—The nature and object of this invention are explained by the claim. Claim. First, a cylindrically shaped cask, the external convex surface of which is composed of sheet metal with transverse corrugations extending in a continuous series from one chime thereof to the other, when such corrugations are so constructed that the salient corrugations of one cask shall fit into the venting corrugations of that which is next, (if made of the same pattern,) and so that a rank of such casks shall interlock firmly with each other and pack closely together, substantially in the manner and for the purpose above described.

Second, in a cask of a cylindrical shape, the external convex surface of which is composed of sheet metal transversely corrugated, the insertion of a plain internal or lining cylinder, made to fit sing and that to the external cylinder by which it is supported, the whole being firmly attached together at the chime, substantially as described.

Third, in a cask constructed of sheet metal, the insertion of heads of sheet metal made sufficiently concave to prevent being bent outward by the internal pressure of the fluid which may be contained in the cask, and having flanges bent down at nearly right angles to their respective surfaces, and so shaped as to be readily fitted and riveted, or otherwise cemented

to the chimes of said cask, substantially as described.

Fourth, in a cylindrical metallic cask in which the head is made slightly concave, and is constructed with a flange fitting the chime of the cask as above described, making the diameter of the head proper, larger than the internal diameter of the cask, in combination with a groove or corrugation fitted to receive it, so that when such head is sprung into the cask, it shall find a firm shoulder, and make a closer joint when any internal pressure is brought against the head, as hereinbefore described.

Fifth, in a cylindrical corrugated cask, constructed as hereinbefore described, in which the bung hole is placed upon the convex side thereof, surrounding it with metallic supports, composed of two parts attached together and fitting the corrugations of the body of the cask, sub-

stantially as above described.

Sixth, in a metallic cylindrical cask having the bung hole upon its convex cylindrical surface, and so constructed as to be nearly flush with that surface, so connecting the bung that it will be somewhat depressed beneath the cheeks which surround the hole, so as to be protected by those cheeks when the cask is rolled over an even surface, substantially as described

No. 36,176.—E. L. SEYMOUR, of New York, N. Y., assignor to L. F. THERASSON and HIRAM KETCHUM, Jr. of the same place.—Improved Mode of Sifting and Bagging Grain.—Parent dated August 12, 1862.—This invention will be understood from the claim.

Claim. —The combination of two, three, four or more inclined sifting surfaces of increasing graduated length, with respective solid prolongations and delivery troughs arranged one above the other, so that the coarsest sieve shall be at the top, and the finest at the bottom, as described and for the purposes described.

No. 36,177.—J. C. STANLEY, of Lawrence, Mass.—Improvement in the Bobbins of Thros-tles for Spinning Machines.—Patent dated August 12, 1862.—In carrying out this invention, the lower one of the two heads of the bobbin, is provided with a cylindrical chamber or recess extending upward from the lower surface of the head and concentric with the spindle passage of the bubbin. Within the said chamber, or recess, is a washer upon which the head is supported, the chamber being a little larger in diameter than the washer, so that the latter, with its sustaining disk, will be protected circumferentially. During the rotation of the flier the flat surfaces of the chamber and washer will tend to produce friction on the washer and effect a steadier draught on the yarn.

Claum.—The improved arrangement of the friction washer d, or the same and its disk s, relatively to the bubbin head b, viz., so as to extend up into and be capable of operating

therewith, substantially in the manner and for the purpose as described.

No. 36, 178.—THOMAS STIBBS, of Wooster, Ohio.—Improvement in Looms.—Patent dated August 12, 1862.—This invention consists in an arrangement of bands, pulleys, levers, and cans, in combination with the treadle frames, for the purpose of rendering the operation of the harnesses for plain or fancy weaving easy and free from jarring motion, and affording

Claim.—First, the arrangement of the bands a b and pulleys I J K L, in combination with each other and with the heddle frames of the loom, substantially as and for the purpose

berein specified.

Second, the arrangement of the cam shaft E, cams D D' D2 D3, and levers M M' M2 M3, n combination with the bands a b and pulleys I J K L, substantially as herein specified. Third, the arrangement of the band t, lever N, and cam C, for working the rock shafts and

ollers which carry the selvedge heddles, substantially as herein specified.

No. 36,179.—G. W. THOMPSON and A. H. ROGERS, of Marion, Iowa.—Improved Sugar Juice Evaporator.—Patent dated August 12, 1862.—This invention consists in the engage ment of a revolving skimmer formed of a longitudinal section of a cylinder hung upon the passing through it lengthwise, and provided with a crank by which it is turned, which is tion serves to remove the scum from the surface of the juice. The skimmer is also provided with a bail by which it is raised from the heater. The furnace is supplied with two chinary. in each of which is a damper so arranged, in connexion with a damper in the furnace or retain the heat under the heater or under the sirup pan, or allow it to be passed through whole length of the furnace, as may be desired.

Claim - First, the revolving skimmer B or its equivalent, in combination with the back

to be operated in the manner and for the purposes herein set forth and described.

Second, the two chimneys with the accompanying dampers, in combination with darp in the furnace, as herein specified.

No. 36,180.—E. S. TICHENOR, of Jacksonville, N. Y.—Improvement in Cultivators.—Pa ent dated August 12, 1862.—The front standard of this implement is attached to the place beam by means of a hinge joint, and upon the sides of this standard, springs attached to z side beams are made to bear, for the purpose of guiding or standard, springs attached to z claim.—The combination of the springs c c or their equivalents, with the hinged took a cultivator, substantially as above described for the purpose set forth.

No. 36,181.—G. N. TROWBRIDGE, of Rollinsford, N. H.—Improvement in Shaft Couples. Patent dated August 12, 1862.—In carrying out this invention the male screw of one of the shafts—of which there is a series—is made equal in length to the female screw of the courier nut, while that of the other shaft is of less length than its corresponding female screw. coupling screw is constructed with a cylindrical recess so as to cover and protect the threeof the entire screw, and also to pass upon the shaft like a sleeve while the coupling null screwed backwards in disconnecting the shafts from one another.

Claim.—An improved shaft screw coupling, having the male screw of one shaft equilength to, and that of the other of a less length than, the female screw of the coupling Also, an improved shaft coupling, as constructed with the chamber or shaft recess 4, 2.

in other respects substantially as described.

No. 36,182.—W. P. TROWERIDGE, of New York, N. Y.—Improvement in Sounding Instruments.—Patent dated August 12, 1862.—This invention relates to that class of instruments. used for sounding, in which a helix or screw propeller is made to revolve by the action of water upon the blades of the propeller; and the invention consists in the combination of rising and falling blades with a framework and registering mechanism in such a matter that the whole weight of the lead and strain of the line is sustained by the framework, and near the axis upon which the blade revolves; the said framework being composed of thin arched which protect the blades and the wheel work from injury. An arrangement of device also employed whereby the registering mechanism is reduced to the smallest possible confidence. while its capacity and facility of operation are increased.

Claim.—First, the combination of the rising and falling propeller B and registering makes

ism with the framework A, substantially in the manner and for the purpose described

Second, the arrangement of the fixed stop t', in combination with the swinging are wheel j, and index r, as and for the purpose specified.

No. 36, 183.—A. C. TWINING, of New Haven, Conn.—Improvement in Condensers for Sucs Engines.—Patent dated August 12, 1862.—The nature and object of this invention are

plained by the claim and engraving.

-First, the combination or use in a steam engine, of an exhaust pipe or steam ci--and a cold-water pipe or water chest, with a condenser, arranged with suitable oritics pipes, one or more, between the condenser and the chests or pipes first named, to conduct exhaust steam and condensing water separately, but in close proximity, into the condexsubstantially as and for the purpose described.

Second, the employment of a rotating apparatus, in combination with the condenser. deliver the water and air, and to be rotated wholly or in part by the rush of the water :

densation, or by a pulley wheel and band, substantially as shown and described.

No. 36,184.—CHRISTIAN WAHL, of Chicago, Ill.—Improvement in Extracting Oil 1-Pigs' Feet.—Patent dated August 12, 1862.—This invention consists in subjecting the 1 feet to an intense pressure in a hydraulic or other powerful press, to extract from them oil contained therein, the portion remaining being then subjected to the usual "lining",

cess employed in the manufacture of glue, after which it is subjected to a boiling process.—The process for treating pigs' feet for the extraction of their contained

gelatinous ma lor.

No. 36,185.—HENRY WALTER, Sr.., of Elizabeth City, N. J.-Improvement an Ma. . for Preparing Tobacco.—Patent dated August 12, 1862.—This invention consists in para-

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the leaves of tobacco between two rollers so arranged as to act upon and compress the stalks without touching or injuring the other parts of the leaf, for the purpose of flattening the stalks so as to admit of the whole leaf being used for fillers of cigars. At each side of the rollers are arranged scrapers, so that their edges may be brought in contact with the surfaces of the rollers, for the purpose of scraping off the gum which may adhere to the same.

Claim.—First, the employment or use, in preparing tobacco leaves, of rollers A A, or their equivalents, arranged substantially as and for the purpose described.

Second, the combination of the adjustable scrapers M with the rollers A A, as and for the purpose specified.

No. 36,186.—HENRY WILDE, of Newark, N. J.—Improved Chamfering and Crozing Machines.—Patent dated August 12, 1862.—This invention consists in affixing inclined curves to the movable lathe heads, for the purpose of insuring the correct chucking of the barrel or cask, enclosing the gearing with the ring mandrels, and employing rotating cutters to croze and chamfer the cask after it has been set up and arranged so as to operate while the cask is in motion.

Claim.—The inclined curves, the enclosed gearing and revolving cutters, when constructed, arranged, and combined substantially in the manner and for the purpose herein above set

No. 36, 187.—EMERSON WOOD, of Monson, Mass.—Improved Carpet Stretcher.—Patent dated August 12, 1862.—This device is composed of two adjustable jointed arms, provided with spurs and attached to a horizontal extension shaft, which is fitted in a suitable frame and operated by a rack and toothed segment. The jointed arms may be secured in line with each other and at right angles with the bar, or placed at an angle with the bar by means of rods attached at one end to the said arms, and at the other end to a sliding collar fitted upon the bar.

Claim.—The bar F, fitted in the frame A, and provided with the adjustable toothed or spurred arms G G, arranged substantially as shown, and operated through the medium of the rack E and toothed segment D, in combination with the manner of adjusting the toothed or spurred arms G G, to wit: by connecting them to the slide or collar H, on the bar F, by rods I I, and securing the slide or collar on the bar by a pin a*, as described.

No. 36,188.—E. T. WOODWARD, of Charlestown, Mass.—Improved Can for Oils, Varmistes, &c.—Patent dated August 12, 1862.—This invention consists of a tin can provided with a short neck at one corner of the upper side. Fitted around this can is a wooden box, cut away at one corner to admit of the neck of the tin can passing through.

Claim.—As a new article of manufacture, the above-described can A and box B, combined, the box being cut away for the passage of the neck a of the can, substantially as described.

No. 36,189.—L. J. Adams, of Cleveland, Ohio, assignor to Himself and C. L. Petter, of Rochester, Ohio.—Improvement in Water Elevators.—Patent dated August 12, 1862.—The box which holds the crank end of the windlass shaft, has an elongated opening, which allows the shaft to rise sufficiently for the teeth of the ratchet wheel to clear the pawl. The end of the shaft is raised by a lever provided with a "packing," which latter acts as a brake upon the shaft. The pawl is provided with a counterbalance in order to keep its point in contact with the ratchet.

Claim.—First, the counterbalance pawl F and ratchet wheel E, in combination with the

elongated opening in the box G, operating as and for the purpose specified.

Second, the elongated opening in the box G, in combination with the lever H and packing II, operating as and for the purpose specified.

No. 36, 190.—James Clements, of Ann Arbor, Mich., assignor to Himself and SedGWICK DEAN, of the same place.—Improved Can for Fluids.—Patent dated August 12, 1862.— This invention consists in placing a glass, or other transparent material, within an opening on the side of the can, in order to ascertain the quantity or quality of the fluid contained in

Claim.—As an improved article of manufacture, a covered or close can, provided with, or having inserted in its side, one or more plates of glass or other transparent material, substantially as and for the purpose set forth.

No. 36,191.—O. G. CRITCHETT, of Stoneham, Mass., assignor to Himself and C. C. DIKE, of the same place.—Improvement in Eyelet Machines.—Patent dated August 12, 1862.—This invention consists in the combination of devices for holding eyelets and feeding them succonvery forward upon an anvil, in connexion with a mechanism for retaining each eyelet on the auvil, and subsequently punching, setting, or compressing the same so as to secure it to an article when placed upon the auvil. Combined with the above is also an eyelet magazine or holder, with a separator and a carrier arranged and made to operate together. From the upper surface of the anvil projects a stud or pin, which receives the work, and upon which the eyelet is deposited by the feeding mechanism preparatory to each depression 🔿 🕜 of the punch.

Claim.—A combination consisting of the mechanism for holding eyelets, and feeding then successively forward upon an anvil or its equivalent, and the mechanism for retaining each eyelet on the anvil and separating it from its feeding mechanism, and subsequently conpressing it and setting it into an article when placed on such anvil, the whole being sustantially as hereinbefore described.

The combination of the eyelet magazine D, a separator F, and a carrier G, arranged and made to operate together, substantially in manner and under circumstances as described

The combination of the eyelet and work receiver or pin a with the anvil B and the eyest feeding and setting machinery.

The combination and arrangement of the eyelet guide rod E with the eyelet magazine

No. 36,192.—ANTONIO MEUCCI, of Clifton, N. Y., assignor to ANTONIO JARÉ, of Breelyn, N. Y.—Improvement in Kerosene Lamps.—Patent dated August 12, 1862.—This investion consists in combining a plate of platinum with the wick tube of a lamp in such a manust that, when the lamp is lighted, the platinum shall be in contact with the base of the farm for the purpose of enabling kerosene and other similar oils to be burned in lamps without the necessity of using a chimney.

Claim.—The combination of a plate of platinum (or other metal having the same qualities with the wick tube of a lamp, substantially as set forth, the said plate being adjustable

vertically.

No. 36,193.—A. B. NIMBS, of Buffalo, N. Y., assignor to Himself and J. C. CLIPPORA of the same place.—Improvement in Floating Grain Elevators.—Patent dated August 1862.—The nature of this invention is mainly explained by the claim. Above the dexistable revolves a platform having a circular pertion, which forms a bed, upon which a surtable revolves. An elevating leg is supported upon the turntable in such a manners and admit of its being placed in any desired position to elevate grain from the vessel in which is placed, or from a vessel at its side.

Claim.—First, supporting and operating the elevator leg upon a turntable, for the purpos

and substantially as set forth.

Second, placing and using the discharging spout of the elevating leg in line with the cert of the turntable, so that any movement of the turntable and elevating leg will not chart the relative position of the spout.

Third, the combination of a grain-elevating apparatus and bin, with a vessel, the clerating leg and bin being so placed and arranged that the bin shall be above the deck of the vessel and sufficiently high, so that the grain may be discharged from the bin (or from the limit through the weighing scales) into a boat alongside, substantially as described.

Fourth, supporting the weighing scales upon a suspended platform, so that the scales and hopper will at all times maintain a perpendicular position, notwithstanding the listing of the

vessel.

Fifth, the combination of a railroad track with a vessel and elevating apparatus, for the purposes and substantially as set forth.

No. 36,194.—R. H. Peck, of Wolcott, V., assignor to Himself, E. M. Gipponn and Orrilla Whitney, of the same place.—Improvement in Vegetable Cutters.—Patent died August 12, 1862.—This invention consists in the arrangement of a suitable set of kn real upon a plate or piece hinged to the wheel, which plate may be adjusted in different positions as at ocut slices of different thicknesses as may be desired.

so as to cut slices of different thicknesses as may be desired.

Claim.—The use of transverse cutters J, mounted upon the adjustable part G. and justed by the screw H, or its equivalent, in combination with the revolving wheel B and its

hopper A, substantially as herein shown and described.

No. 36,195.—WILLIAM PETERS, of Baltimore, Md., assignor to Himself and AIFEP BUCK, of the same place.—Improvement in the Manufacture of Fire-Bricks.—Pare: are August 12, 1862.—This invention consists in making fire-brick of asbestos, combined and any of the earths, clays, mineral substances, sand, or ground or pulverized stones.

Claim.—Making fire-brick of asbestos and other material, substantially as herein serious.

No. 36,196.—ELLIOT SAVAGE, of Meriden, Conn., assignor to CHARLES PARKER, same place.—Improvement in Machines for Threading Wood Screws.—Patent dated Available.—The improvements claimed as new in this machine relate to that part of the vition which effects the cutting or chasing of the threads upon the screw blank, and the cipal feature of the invention consists in the adaptation of mechanism to operate a rotary cutter to which a positive revolving motion, as well as an onward feeding methan given, in order to effect the chasing of the thread upon the blank.

Claim.—First, so mounting the rotating cutter in its relation to the screw blank the said cutter may have a positive rotary motion given to it, the speed of which shall be automatically that whether cutting in a fixed spot or moving along the blank the veice rotation of said cutter shall be such as to cause its cutting edges always to correspond the spiral threads as they are being formed upon the blank, irrespective of the speed we

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ch said cutter is moved boldly along toward the point of the blank, substantially in the ner set forth.

xond, the construction and arrangement of mechanism, as herein before described, dor sning rotary motion to the cutter.

hird, connecting the cam m with the driving shaft g, by an arrangement of mechanism ble of being so adjusted as to produce a change in the speed of the cam, and in the extent avel of the carriage, without changing the speed of the shafts g or h, substantially as set

o. 36,197.-IRA W. SHALER, of Brooklyn, N. Y., and REUBEN SHALER, of Madison, n., assignors to Ira W. Shaler, aforesaid.—Improvement in Compound Bullet for Small is.—Patent dated August 12, 1862.—This projectile is composed of two or more parts. th fit the bore of the barrel, and so constructed that the forward end of each of the parts be rear of the front one, enters a cavity in the rear of the one before it, and is formed in tion to the same in such a manner as to separate from it after leaving the barrel of the and make a slight deviation in its line of flight from that of its predecessor.

lsim.—The projectile hereinbefore described, made up of two or more parts, each of equal peter, constructed as set forth, so as to separate from each other as stated.

o. 36,198.—E. G. Tobey, of Portland, Maine, assignor to Himself and Josephus Nash, be same place.—Improvement in Kerosene Lantern.—Patent dated August 12, 1862.—To inner flanch of the base trimming of the lantern is attached, by means of springs, a semi-rical cap extending up into the globe of the lantern a sufficient distance to cover the ner of the lamp except the slitted apex of the cone, for the purpose of conducting the air he flame, by causing it to pass through the perforations of the base support of the cone directly to the base of the flame; the object being to prevent the smoking in kerosene

'lsim.—First, the combination of the fastenings c c, the flanch a, and the cap C, substan-

y in the manner and for the purpose described. is herein described.

hird, the combination of lantern A, burner or lamp B, and cap C, substantially as cribed.

o. 36,199.—J. G. WILSON, of New York, N. Y., assignor to C. P. DIXON and EDWARD IRNED, of the same place.—Improvement in Knitting Machines.—Patent dated August 12, 2.—This invention relates to a substitute for the beaters or pressers employed in those ting machines in which several needles are knitted upon at once with separate yarns to that between the needles, for the purpose of holding the work to its proper place thereon, it consists in substituting for the said beaters or pressers, a pad of India-rubber or other ilar yielding substance so applied and having such a movement as to operate in combinawith the needle-ring or needle-bar and the needle. By means of slides having tongues which the needle-ring of needle-bar and the needle. By hears of shades having tongues the case of the said bar, the machine may be stopped by excessive tension on any of the yarns, and breakage of the yarns be thereby prevented.

**lum.—First, the employment of a pad or pads of India-rubber or other yielding material, ied and operating in combination with the needle-ring or needle bar and needles, sub-Itially as and for either or both the purposes herein specified.

econd, giving the pad M a compound motion, substantially as herein described, whereby caused first to press and to hold the work, while the needles are completing their descent the needle-ring, and afterward to give a second pressure, or draw the loops over the ds or bends of the hooks of the needles during the ascending movement of the latter,

stantially as herein described.

bird, the stop motion, composed of slides ll, suspended from the yarns, and a notched procating bar P, or its equivalent, applied in combination with an organized knitting hine, to operate substantially as herein specified.

10. 36,200.—W. L. Wood, of Washington city, D. C., assignor to HARRIET WOOD, of attevitle, Ind.—Improvement in Paper File.—Patent dated August 12, 1862.—This inven-1 consists in the construction of a folding box, so arranged that the inside portion will Ly slip out and admit of the papers filed therein to be examined by their titles without aving them from the box. To the falling lid is attached a tablet, upon which may be it the titles of the papers removed.

Juin.—A combination of two boxes, one within the other, and attached, forming a foldbut with two lids, and a tablet attached, producing a practical file and safe for business

"", as herein described.

10. 36,201.-N. AUBIN, of Canada.-Improvement in Water Meters.-Patent dated August 1862.—Reference to the specification and drawings will be necessary for an explanation his invention.

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Claim:—The combination of a diaphragm with a reversing apparatus and a short valve, connected each with the other without the use of stuffing boxes, and the wholest closed within a proper receptacle containing a valve seat, and constituting a fluid net: substantially such as is described and acting substantially as specified.

Also, a receptacle constructed in two pieces, one half of which contains part of the 5th pipe, and the other half the other part thereof, when the joint between the two is made by diaphragm, and the latter acts on a reversing apparatus contained in one half of the ...

receptacle; the construction being substantially such as described.

Also, in combination with a diaphragm of a water meter, a short slide valve of less less than the distance from the outside of one port to the inside of the other port, the combinate being substantially such as described.

No. 36,202.—C. G. Austin, of Nantucket, Mass.—Improvement in Coal Sisters.—Por dated August 19, 1862.—This invention consists in the arrangement of a hinged flap attack. to the cover of the barrel or ash-box, the said cover being made to swing in a direct opposite to that of the flap, and provided with guide grooves in which the sieve more 2 combination with a hopper or chute attached to the side of the ash-box, so that by comthe flap and the lid, the sieve is completely enclosed and the dust prevented from example and by turning the cover, the flap opens and rests with its edge on the hopper or chu.

to pass the sifted coals to a coal scuttle or other receptacle.

Claim.—The arrangement of the flap D hinged to the cover B, as described, in contion with the reciprocating sieve A and hopper E, all constructed and operating substant.

as specified.

No. 36,203.—J. F. Black and Ambrose Buracker, of Lancaster, Ill.—Improvement Cattle Pumps.—Patent dated August 19, 1862.—This invention consists in attaching a tab. piston rod of a pump to a platform which works on a joint at one end, and is provide. a water trough placed within a guard or railing at its free or disengaged end, and cores its opposite end to prevent animals from standing on the platform in the rear of the pro- 2 The weight of the animal serves to depress the platform a occupied by the one drinking. with it the piston which forces the water up into the trough. As the animal leaves platform the latter is raised by means of a weight attached to a rope passing over a pas the other end of the rope being attached to the free end of the platform.

Claim.—The platform C, with the weight G attached, in combination with the ripiston rod I of the pump and the trough O, attached to the platform, arranged substantiant

as and for the purpose herein specified.

Also, the railing M and cover N when combined and arranged relatively with the parts C, for the purpose herein set forth.

No. 36,204.—M. C. Burr, of Owatanna, Minn.—Improved Clothes Dryer.—Patent and August 19, 1862.—This device is formed of a bar of wood placed just below the window. having attached to its under side a semicircular bar of wood or metal supported by a tragular brace piece. Resting upon the semicircular bar are four arms which turn free! 145 pins by which they are secured to a bar E, and are connected at their outer ends by a crerope by which the arms are drawn out, and their ends expanded a certain distance 🐃 Cords or ropes are also attached to the arms for holding the clothes.

Claim.—The straight bars A E, in connexion with the semicircular B, brace D. az.

arms F F' F" F", connected by cords or ropes j G, combined and arranged to open and

and for the purpose set forth.

No. 36,205.—W. H. CRAWFORD, of New York, N. Y.—Improvement in Reflectors.—Pt. 2 dated August 19, 1862.—This reflector consists of a single plate bent so as to form two conditions. surfaces placed together with a central ridge between them, opposite which latter the of the lamp is placed, for the purpose of reflecting the light over a large area.

Claim.—A reflector A, formed of two curved or bent surfaces B C, with one high or

ridge D, as and for the purpose shown and described.

No. 36,206. G. Y. Custer, of Norristown, Pa.—Improvement in Coal-Oil Lamps.—P. dated August 19, 1862.—Immediately below the perforated air chamber of a coal-oil arranged a reservoir containing water so that the heat imparted to the water will process steam, which latter, mingling with the air, will impinge against the base of the flame of object being to obtain a clearer light and prevent the objectionable odor common in ac-

Claim.—The reservoir B, containing a supply of water, and arranged immediate visconian containing a supply of water, and arranged immediate visconian containing a supply of water, and arranged immediate visconian containing a supply of water, and arranged immediate visconian containing a supply of water, and arranged immediate visconian containing a supply of water, and arranged immediate visconian containing a supply of water, and arranged immediate visconian containing a supply of water, and arranged immediate visconian containing a supply of water, and arranged immediate visconian containing a supply of water, and arranged immediate visconian containing a supply of water, and arranged immediate visconian containing a supply of water, and arranged immediate visconian containing a supply of water, and arranged immediate visconian containing a supply of water visc the perforated air chamber G of a coul-oil famp in respect to the wick tube, as and be

purpose herein set forth.

No. 36,207.—Jonathan Dearborn, of Seabrook, N. H.—Improvement in Deer Leich. Patent dated August 19, 1862.—This lock is provided with a curved bolt pivoted at the end, and so hung that the lower bevelled end which projects from the face of the lock a lower end, shall be forced out by its own gravity into the locking recess. The made to work in a slot so as to raise the bolt sufficiently to draw in the bevelled end ". the door is to be opened.

Claim.—An improved door-fastener, as made with its bolt case A, its bolt B, its knob shaft h, constructed and arranged with respect to each other, and so as to operate substantially in manner as set forth.

No. 36,208.—J. S. DE HAVEN, of Akron, Ohio.—Improvement in Machines for Loading and Pitching Hay.—Patent dated August 19, 1862.—This invention consists in an arrangement of devices by means of which the machine as it is drawn over the ground, is made to gather up the hay by the automatic operation of the rake, which throws it, when gathered, into a proper receptacle upon the cart.

Claim. -First, the combination of the fork handle with the guides H H', substantially as

set forth.

Second, the combination with shaft e' and lever * of the screw m, sliding shifting piece m', and cam m", for the purpose set forth.

Third, the combination with shaft e, of clutch i, pulley J", and shipper K, substantially as

and for the purposes set forth.

Fourth, the combination and arrangement of mechanism, substantially as set forth, for sutomatically gathering and loading hay, substantially as described.

No. 36,209.-J. E. EMERSON, of Trenton, N. J.-Improvement in Steel Scabbards for Bayonets.-Patent dated August 19, 1862.-This invention is explained by the claim.

Claim.—As a new article of manufacture, an angular bayonet scabbard, constructed of steel formed around a mandrel by pressing, and united at its edges, in the manner and for the purpose herein specified.

No. 36,210.—Samuel Etter and R. B. Neuman, of Fayetteville, Pa.—Improved Washing Machine.—Patent duted August 19, 1862.—The rubber is suspended within the tub from a shaft journalled in the upper ends of standards rising from a compound lever. This lever is journalled at its rear end to the projecting ends of two of the legs of the tub and connects the rubber to an oscillating compound lever by means of rods or hooks, whereby the rubber may be easily detached from its actuating lever, and, by a simple movement of the pressure lever, be turned up into such a position as to afford convenient access to every part of the tub, to facilitate the handling of the clockes and the cleansing of the tub and rubber.

Claim.—The compound lever F, standards d d', and pivots e e', in combination with the compound lever H, pivots g g', wrist pins i i', hooks I I', and rubber C, when arranged to operate in connexion with the washboard, in the manner and for the purpose set forth.

No. 36,211.—C. O. GARRISON, of East Saginaw, Mich.—Improved Apparatus for the Manufacture of Salt.—Patent dated August 19, 1862.—This invention consists in the arrangement of false metal bottoms resting on ribs projecting from the regular bottoms of the pans of a salt block in such a manner that a space is formed which can be filled with steam or hot air, and the sait brine passing through the said pans is evaporated entirely by the action of hot air or steam. In combination with the above is an arrangement of a graduation and purifying range consisting of a long flat trough with longitudinal partitions forming a zigzag channel, below which is placed a series of finishing pans, in such a manner that the brine, after being heated in the preliminary pan, is passed through the purifying range where the same presents a large evaporating surface, and consequently readily deposits its impurities before it passes to the finishing pans. A lateral inclination is given to the finishing pans so that the bitterns can be early drawn off when it is desired to dry the salt on the pans.

Claim.—First, the arrangement of the false metal bottoms a inserted into the pans A B C

D of a salt block, and resting on ribs b projecting from the bottoms c of the said pans, sub-

stantially as and for the purpose described.

Second, the arrangement of the graduation and purifying range F, in combination with the pans A B C D, constructed and operating substantially as and for the purpose specified. Third, giving to the finishing pans B C D a lateral inclination, as and for the purpose set forth.

No. 36,212.—C. L. GETZ, of Philadelphia, Pa—Pantographic Reversing Instrument.—Patent dated August 19, 1862.—This device is designed more especially for the use of lithographers and engravers, and consists in an arrangement of lever, links, and wheels, with their connecting bands, in connexion with pencils, in such a manner that drawings, lettering, or any other matter, can be copied reversely from an original directly upon stone; the instrument being further so constructed that the size of the copy may be varied at pleasure from that of the original.

Claim.—The described pantographic reversing instrument, in which the reverse movement of the copying pencil is derived from the action of the leading pencil, by means of the described combination of levers H H' I I' K K', links M and M', with wheels E E1 E2 E3, and bands a m, or their equivalents, the whole being arranged and constructed substantially

as set forth.

Also, the employment of levers P and Q, or their equivalents, when combined with the pencils L and O, and operating substantially in the manner and for the purpose specified.

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No. 36,213.-W. A. GREENE, of Albany, N. Y.-Improvement in Sad-Iron Heaters.-Patent dated August 19, 1862.—This invention consists in arranging, in combination with the fire box and lateral cover doors of the heater, a plate for supporting the irons in a vertical position within the combustion chamber of the heater. The said plate is constructed with horizontal projections, between which are flue openings and flanges. In combination with the support plate is a deflection and lateral support plate, for deflecting the heat downward and laterally between the sides of the iron adjusted for heating, and also to support the toes of the iron laterally.

Claim.—First, when arranged in combination with the fire box A and covers F, the support plate B, constructed substantially in the manner as herein shown and described, and for

the purposes set forth.

Also, in combination with the support plate B and covers F, the deflection and lateral support plate C, when constructed and arranged substantially as herein described and shown, and operating for the purposes as fully set forth.

No. 36,214.—HENRY HOCKMAN, of Danville, N. Y.—Improvement in Threshing Machines.— Patent dated August 19, 1862.—This machine is so constructed as to admit of the attackment of a combined cap and chute F, which conducts the clover seed to the hulling cylinder, and thence to the sieves of the fanning mill, or of a simple chute J, which may be substituted for F, and close the opening of the huller, conducting the wheat directly into the fanning mill; the object being to adapt a threshing and cleaning machine to the purpose of hulling. Immediately below the separator or perforated apron is a stationary table, around which revolves an endless slatted carrier, which latter conveys the grain to either the chute J or clover huller E. A fanning device is arranged below the huller.

Claim.—First, in a combined clover thresher and huller, the use of the detachable alterna-

ting chutes F J, substantially in the manner and for the purpose described.

Second, in a combined clover thresher and huller, the use in combination of the detachable alternating chutes F J and the carrier D1, running close in relation with the top and bottom of the table D, substantially in the manner and for the purpose described.

Third, in a combined clover thresher and huller, in combination the use of the detachable chutes F J, the flatwise-arranged carrier D1, and the fanning device H I, the whole constructed, arranged, and operating in the manner and for the purpose described.

No. 36,215.—Nelson Hornaday, of West Elkton, Ohio, assignor to Himself and Z. STUBBS, of the same place.—Improvement in Portable Fences.—Patent dated August 19, 1862.—This invention will be understood by reference to the claim and engraving

Claim.—The arrangement of oblique braces B B', secured at their lower ends by pivots C C' to a sill A, and provided at their upper ends with notches D D running longitudinally of the fence, and forming a seat for the contiguous ends of the rails of two adjacent panels to rest in, the whole being combined in such a manner that the downward stress of the panels continually acts to firmly support and clamp the parts together, substantially a described.

No. 36,216.-W. J. HUCKETT, of Marshall, Mich.-Improvement in Swings.-Patent dated August 19, 1862.—This invention consists in the employment of two pulleys, one connected with the hanging bars near their upper ends, and the other with a bow projecting from one side of the frame, so that, by means of a cord extending over the said pulleys w the occupant of the swinging car, the latter may be easily vibrated upon pulling the cord

Claim.—The application and use of the pulley blocks P1 P2 and connecting cord z when arranged and connected relatively with each other and with the frame and swing in

the manner and for the purposes specified.

No. 35,217.—D. W. HUNT, of San Francisco, Cal.—Improvement in Brakes for Wind Wheels.—Patent dated August 19, 1862.—This invention consists in a method of applying a brake to a wind wheel whereby the speed of the wheel may be regulated as desired without having the brake mechanism interfere with the operation of the wind wheel, either as regards its rotation or its shifting position, which keeps it in the face of the wind. The backs of the fans are provided with longitudinal flanches or ribs projecting centrally from the fans, and serve to stiffen them and to act as regulators to the same to prevent undue velocity in a high wind.

Claim.—First, the strap P applied to the crank pulley G, as shown and connected with the socket K, which is placed loosely in the connecting rod H, the socket being connected to the lever M through the medium of the clamp L, and the lever M connected by a rod j with a lever N, which is retained at any desired point by a rack O, or its equivalent, the above parts being used in combination with a revolving crane C and the swivel J, which connects the rods H H, substantially as and for the purpose set forth.

Second, in connexion with the foregoing, the flanches or ribs f', attached to the back parts of the pans F, to operate as and for the purpose specified

No. 36,218.—WILLIAM JOSLIN, of Cleveland, Ohio.—Improved Clothes-Wringing Ma chine.—Patent dated August 19, 1862.—This invention consists in an arrangement of level

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and springs in connexion with caps or boxes for pressing the rubber rollers together. The levice is secured to a tub by means of double threaded screws acting within a toothed

nortise, by which the end of a spindle is forced against one side of the tub.

Claim. - First, the springs F and F2 acting upon the levers C and C2, as above described. Second, the right and left hand circular incline planes G and G2, the toothed mortise a and a2, b and b2, and the shafts and handles H and H2, the parts being constructed and operated substantially in the manner and for the purpose set forth.

No. 36,219.—RICHARD KITSON, of Lowell, Mass.—Improvement in Dust Rooms connected with Machines for Picking Cotton, &c.—Patent dated August 19, 1862.—This invention consists in the employment of flap valves fitted to the mouths of the dust pipes of the pickers, and suspended from pins in such a manner as to close the mouths by gravitation when the pressure of the air in the pipes is no greater than that in the dust room, by which means the back pressure of the air and dust are prevented from returning into the picker room when the machines are stopped.

Claim.—Furnishing the dust pipes of the pickers or openers with valves D D D closing

automatically, substantially as herein specified.

No. 36,220.—G. W. LA BAW and P. F. CAMPBELL, of Jersey City, N. J.—Improvement is Carriage Springs.—Patent dated August 19, 1862.—This invention consists in the combination of toggle-joint bars, with a sliding bar and compressible spring, the parts being arranged and applied between the axle and the body of the vehicle in such a manner that the toggle-joint bars, through the agency of the said sliding bar, cause the spring to be compressed endwise.

Claim.—The toggle bars c and g fitted as set forth, in combination with the slide bar h and spring m, in the manner and for the purposes specified.

No. 36,221.—W. C. LEACH and M. J. KNOX, of Knox Corners, N. Y.—Improvement in Locks.—Patent dated August 19, 1862.—This invention consists in the method of arranging a slide or guard for the keyhole of the lock, whereby the outer keyhole, when the lock is locked, will be effectually guarded so that the lock cannot be picked or illegitimately un-

Claim.—First, the slide G, provided with the notch g in its upper edge, in combination with the tumbler H, provided with the pin f, all arranged so as to be operated by the key of

the main bolt D, substantially as and for the purpose set forth.

Second, the pin e on the slide G, in combination with the notch a in the tumbler E, and the projection n on said tumbler, arranged as shown, so as to admit of the latter being operated either by the key of bolt D or the key of the night latch, as set forth.

No. 36,222.—Robert Leitch, of Baltimore, Md.—Improvement in Two-way Stop-Cocks.-Patent dated August 19, 1852.—Within the main portion of the stop-cock is fitted a valve provided with a vertical conical opening, and with a slot at its lower part at one side, corresponding with a passage leading from the main pipe or channel, so that a full flow of water may be used solely for the house or for the street separately, or be cut off at the same time from each.

Claim.—A stop-cock for street and dwelling purposes, constructed and operating substantially in the manner and for the purpose set forth.

No. 36,223.—J. L. Lewis, of Pittsburg, Pa.—Improvement in Pile or Fagot for Shoe Rail for Gun Carriages.—Patent dated August 19, 1862.—The pile is formed of a series of flat bars one of which, A, forms the base of the width of the intended shoe. Upon this is placed edgewise a bar B so as to form with A, in section or endwise, an inverted T. Upon the base bar and at each side of the vertical bar is placed a bar c c', which, with the base bar, form the base of the intended rail. When thus arranged the pile is heated and passed through suitable rollers, and the shoe rail is formed and finished at one operation.

Claim.—The manner herein shown and described of arranging or disposing the bars A B

C C' in forming a pile for the purpose set forth.

No. 36,224.—J. W. Lyon, of Brooklyn, N. Y.—Improvement in Locks.—Patent dated August 19, 1862.—The nature and object of this invention will be understood from the claim.

Claim.—A spring catch or dog, arranged substantially as described, in combination with a aich bolt and releasing mechanism, so as to seize the bolt when drawn back, for the purpose of opening the door, and to retain it within the lock while the door is open, and until releaved in the act of shutting the door by the action of the door jamb against the releasing mechanism, substantially as hereinbefore set forth.

No. 36,225.—ISAAC MARSH, Jr., of Milton, and GRIGGS MARSH, of Lewisburg, Pa.—Improcessent in Tile Roofing. -Patent dated August 19, 1862. -This roofing is formed of burnt canhware tile provided with grooves around its edges, into which are inserted strips of tin, zinc, or other metal covered with muslin or other soft material in connexion with cement.

Claim .- The grooved tiles and thin strips of metal or other elastic material, made and joined together so as to construct a water-proof and fire-proof roof, in the manner and for the purpose herein fully set forth.

No. 36,226.—Samuel Marshall, of Wilmington, Del.—Improvement in Lamps.—Pact dated August 19, 1862.—The object of this invention is to adapt an ordinary fluid lamp the burning of coal oil without a chimney, and it consists in the employment of a stripmental cap D of semi-spherical form and slotted at its upper end so as to fit over the way. tube, and connected to the wick tube by a curved metal plate resting upon the cap of the lamp. By bending the plate the supplemental cap may be raised or lowered to suit to height of the wick tube.

Claim.—The attaching of the supplemental cap D to the lamp by means of one or to curved or bent plates E, arranged as shown, so as to support the cap D and admit of its best adjusted higher or lower, to suit the height of the wick tube, and at the same time adu the wick tube passing through it at its upper part, to prevent any lateral movement or Lo

ing of the cap, as and for the purpose herein set forth.

No. 36,227.—M. J. MARTIN, of Belleville, Ill.—Improvement in Stump Extractors—Patent dated August 19, 1862.—This invention consists of a frame provided with discusbraces, that admit of being readily removed for convenience of access to the stump, and a screw provided at its lower end with grappling hooks. The upper part of the screw with in a nut, to which are attached curved arms, by which means the screws and grapp. .: hooks are elevated, and the stump extracted.

Claim.—The combination of the frame with shifting braces r, the screw with grap.—
hooks h, and the nut with bent power levers c, arranged in the manner described and by

purpose specified.

No. 36,228.—Benjamin Merritt, jr., of Chelsea, Mass.—Improved Mackine for Policy or Embossing Leather.—Patent dated August 19, 1862.—This invention consists in the employment of an engraved or indented metallic roll C resting upon a vulcanized rubbert B, having its bearings in boxes upon springs secured in each housing. Upon the netseroll also rests a roll E similar to B, its boxes sliding in a slot in the housings. To each but of the engraved roll is attached a frame, and on each side of the rolls is a table so arrater! that skins may be fed between the rolls above the engraved roll at the same time. A new contract that skins may be fed between the rolls above the engraved roll at the same time. guide bar k above the lower table receives the skin as it comes from the upper table at =opposite side of the rolls.

Claim.—The above-described machine for pebbling or figuring leather, consisting of indented or engraved roll C, with the elastic rolls B and E above and below it, with the bearings or boxes dfg sliding and supported in the housings A, in the manner specified. Second, suspending the tables F and G and rest k on the boxes f of the roll C. so that they shall maintain their proper positions with respect to the roll, as it rises or falls.

No. 36,229.—Purches Miles, of New Haven, Conn.—Improved Meat-mineing Machine—Patent dated August 19, 1862.—Within recesses upon the inner side of the cylinders are plates containing cutters, with which they are united by being cast together. The end of these cutters rest in a groove turned in the arbor, upon which are cast spiral beaters, we the

the cutters are held firmly in place while the arbor revolves.

Claim.—The cutters D united solidly with a metal plate C by being cast thereon, in c.e. bination with the grooves d, in the manner and for the purpose substantially as set for h

No. 36,230.—WILLIAM MOLLER, of New York, N. Y.—Improved Oven for Re-burning Rev Black.—Patent dated August 19, 1862.—Upon the inside of an inclined circular recort :" arranged a series of circular and longitudinal ribs or flanches, so as to divide the surface in compartments, for the purpose of preventing the bone-black from sliding over the states when the retort is rotated, by which means the bone-black will be turned over, and creft particle be brought in contact with the surface acted upon by the heat of the fire.

Claim.—The arrangement of circular and longitudinal ribs or flanches on the inside face of a revolving retort, dividing the said surface in compartments, in the manner and it

the purpose substantially as specified.

No. 36,231.—ABRAM PAIGE, of Springfield, Mass.—Improvement in Electrical Instruction for Medical Purposes.—Patent dated August 19, 1862.—The apparatus in which the Ec. cated liquid is placed consists of a vessel of glass, or other non-conducting material, make a tapering and curved form, terminating at one end in an open neck. At the open extremity is a foot or disk, through the centre of which is a small conduit leading from inner chamber. Leading from the conduit is a lateral or branch passage, into which and the conduit, and so as to reach, or nearly so, to the outer end of the conduit, extended metallic wire wound helically, and made to terminate in a socket, or other snitsble near of connecting it to the wire of an electrical battery. In operation, the foot or disk and a placed upon the discount materials and the same of th placed upon the diseased part of the body, and a current of electricity being made to past through the wire, causes the medicating liquid to enter and penetrate the diseased part

Claim.—For the application of medicaments for curative purposes by electrical agency, ne instrument or apparatus substantially as hereinbefore described and represented.

No. 35,232.—J. G. PERRY, of South Kingston, R. I.—Improved Sausage Filler.—Patent and August 19, 1862.—This machine consists of a hollow case divided at its centre, to form no parts, which are hinged together and provided with a hopper and discharging spout. hrough its centre passes a shaft, upon which are secured two or more leaves, whose empherics are in contact with the inner surface of the case, and so arranged that, as they re rotated, one of the leaves will force the meat through the discharge passage, while the ther prevents it from being carried back.

tlaim.—The combination of the leaves (two or more) with the case, substantially as

erein described and for the purpose set forth.

No. 36,233.—J. G PERRY, of South Kingston, R. I.—Improved Sausage Filler.—Patent ated August 19, 1862.—In a hollow case, divided centrally in two parts, is fitted a shaft rovided with two leaves, one of which is secured to the shaft so as to turn with it. he shaft are also placed two disks having each two slots for holding the leaves. These isks are arranged in the case in such a manner as to bring their lower surfaces together, heir upper edges being separated so that, as the shaft is revolved with the leaves, the disks rill force the meat into the discharge passage.

Claim.—The combination of the disks with the leaf or leaves and shaft, substantially as

erein described and for the purposes set forth.

No. 36,234.—DAVID and JOHN POLLOCK, of Cleveland, Ohio.—Improvement in Artificial

lett.—Patent dated August 19, 1862.—This invention is explained by the claim.

Claim.—First, the use of metallic strips or wires, composed of platina or other suitable metal, to be used longitudinally, transversely, or crossing each other like network, inserted we moulded in the plate, gums, and base of artificial teeth, composed of porcelain or other ubstance, substantially as set forth in this specification, and as will best answer the pur ose intended.

Second, the use of metallic strips or wires, composed of platina or other metal, to be used a sectional parts of artificial teeth, and also in the teeth, substantially as set forth and for he purpose intended.

No. 36,235.—M. W. POND, of Elyria, Ohio.—Improved Harness Buckle.—Patent dated lugust 19, 1862.—This invention consists in the combination of an eccentric clamp, with a traight tongue and two bars, between which and the clamp the strap passes so as to dis-nbute the pressure, and firmly hold the strap or brace without injuring or deadening it a

Claim.—As a new article of manufacture, a buckle having its outside frame thrown out, igs. 1.1, with three cross-bars and an occentric clamp 3, hinged and arranged as herein

lescribed.

No. 36,236.—J. P. SCHENKL, of Boston, Mass.—Improvement in Concussion Fuze for Explosive Shells.—Patent dated August 19, 1862.—Within a cylindrical case is secured by a crew a slider or plunger B, provided with a loading chamber for the reception of a charge fowder, and through the breech of the loading chamber is a vent opening out of a perussion nipple within another chamber f, formed in the striker and around the nipple, which after receives a percussion cap. To the outside surface of the percussion cap is fitted an annulus of leather, for the purpose of holding the cap on the nipple during transportation of he fuze. The rear end of the outer case is formed with a counter-sunk cylindrical passage, o receive the stem of a leaden or inelastic abutment, which rests against the inner surface the breech. This abutment is bored through longitudinally and receives a plug, which, then the apparatus is fixed in a shell, serves to separate the powder charge of the shell from the chamber at the rear end of the case.

Claim.—First, the arrangement and combination of the holding annulus h', and the per-

ussion-cap chamber f, with the plunger B, and its nipple c.

second, the construction of the inelastic abutment, in such manner as to extend through he metallic bottom or breech of the case A, and project over opposite sides or surfaces hereof, substantially as explained.

Third, the formation of the inelastic abutment with a plug hole or passage for receiving a

ing, to operate in manner and for the purpose substantially as set forth.

No. 36,237.—J. W. SCHREIDER, of New York, N. Y.—Improvement in Mica Chimneys for amps.—Putent dated August 19, 1862.—This invention consists in constructing a lamp himney of mica of a double taper or conical form, provided with a metal top, and also with perforated metal base. Above the metal top of the chimney is a bell-shaped cap provided with an upright metal tube attached centrally to it, the upper end of which communicates with horizontal tubes provided with elbows extending downwards so as to increase and now the escape of the draught, for the purpose of enabling coal-oil lamps to be used in cars ad other vehicles. Digitized by GOOGLE

Claim.—First, a lamp chimney composed of two conical mica tubes a a', connected together at their larger ends, and provided with a metal-top tube c and a perforated mea....base C, substantially as set forth.

Second, the supplemental draught tubes F H H, with cap E, attached and arranged w shown, to form two eduction or escape passages for the draught, when said tubes are use! in connexion with the chimney B, for the purpose set forth.

No. 36,238.—Thomas Shaw, of Philadelphia, Pa.—Improvement in Blow-off Cods for Pumps.—Patent dated August 19, 1862.—This invention consists in the application of a valve to the ordinary blow-off cock, so that air, water, &c., after being forced out, are prevented from returning.

Claim.—The combination of a valve and faucet, when applied to a pump, substantaly

shown and described.

No. 36,239.—W. B. SHEDD, of East Boston, Mass.—Improved Hat Brush.—Patent & .: August 19, 1862.—This invention consists in providing a hat brush with a spring clasp 🚅 ably arranged on its back and near one end so that it can be attached to the sweat or i ... lining of the hat, for the purpose of conveniently carrying the same.

Claim.—Furnishing the brush with a spring clasp, applied and arranged upon its back.

operate substantially as and for the purpose herein specified.

No. 36,240.—W. W. SIMRELL, of Great Bend, Pa.—Improvement in Auger Handles-Patent dated August 19, 1862.—This invention consists in providing the handle with a arr in which is arranged a nut or collar in connexion with upper and lower plates, a brace 121 spring, arranged in such a manner as to readily adapt it to be used with ordinary aggrevarious sizes.

Claim.—The arrangement and combination of the collar or nut B, brace D, spring I thumb-screw T, shank C, plates L L', and handle H, as and for the purpose set forth.

No. 36,241.—J. P. SINCLAIR, of Little Prairie Ronde, Mich.—Improvement in Car Conling.—Patent dated August 19, 1862.—This invention consists in the employment of a concave clasps pivoted to springs and fitted in the draw-head or bumper of a car, it we nexion with a vertical sliding pin, all so arranged as to be self-connecting when two arcome in contact with each other.

Claim.—The concave clasps C connected by pivots or joints a to springs B B, attached the draw-heads or bumpers A in connexion with the pins F and shackle D, all arranged a

and for the purpose herein shown and described.

No. 36,242.—BENJAMIN SNYDER, of Trenton, N. J.—Reading Card.—Patent dated Ave-19, 1862.—This device is formed of a jointed or folding card, or thin wooden or metal prothe lower one of which is provided with a flap to prevent the card from casually with upon the paper when in use; the object being to provide a guide for the eye so as to: tate reading in railroad cars.

Claim.—A reading card formed of two parts a b connected by a joint c, and provided *

a flap B, substantially as set forth.

No. 36,243.—EDWARD SPENCER, of St. Louis, Mo.—Improvement in Marking Machines -Patent dated August 19, 1862.—This device consists of a pair of jaws provided with later and operated like pincers. In one of the jaws is fitted a die for the reception of type and under the die is a piece of India-rubber serving as a yielding bottom. On each was a die is fixed a roller provided with a spring clasp for the purpose of holding and satisfable nibbon which passes over the rollers; the ribbon is saturated with ink, and kept against face of the die by means of triction rollers. The opposite jaw is provided with a putting perforator, which latter perforates the ticket so as to admit of its being easily torn aparaclaim.—First, in combination with the jaws A A' the die N, substantially in the part of the latter perforates the ticket so as to admit of its being easily torn aparaclaim.—First, in combination with the jaws A A' the die N, substantially in the part of the perforates the ticket so as to admit of its being easily torn aparaclaim.

described, for the purpose specified.

Second, in combination with the jaws A' A and die N, the yielding bottom r under the as shown and described.

Third, in combination with the jaws A' A, rollers H H, and friction wheels d d, the line rubber friction pieces L L, as shown and described.

Fourth, in combination with the jaws A' A the perforator C, as shown and described the purpose specified.

Fifth, in combination with the jaws A' A and perforator C the punch B, as shown and described.

Sixth, in combination with the jaws A' A and die N the punch B, as shown and description for the purpose specified.

Seventh, in combination with the jaws A' A the perforator C, the die N, and the n less H H, as described.

No. 36,244.-E. T. STARR, of New York, N. Y .- Improvement in Skates .- Paled: - . August 19, 1862.—The back part of the runner is pivoted to the heel post, and is inci. is secured to the front post of the foot-stand by means of a set-screw passing through the post and through an oblong slot in the runner, so that the front part of the runner may be raised or lowered as desired, to adjust it to boot heels of different heights.

Claim.—Having the foot-stand A made adjustable in respect to the runner B, substantially in the manner herein shown and described, so that the skate may be adjusted to boot heels of differentheights, and the runner be thus readily made to occupy a horizontal position in respect to the bottom of the wearer's foot, all as set forth.

No. 36,245.—C. E. STELLER, of Genezee, Wis.—Improvement in Sod Cutters.—Patent dated August 19, 1862.—This invention consists in the arrangement of two or more vertically adjustable cutter-beams, each being provided with a series of oblique cutters inclining laterally in opposite directions, in combination with a self-adjusting drag suspended from the rear end of the cutter-frame in such a manner that the sod is cut up by the action of the cutters, and the ground is pulverized and levelled by the action of the drag, for the reception of seed. On the upper ends of the cutters are arranged notches combined with pivoted catches or buttons, in such a manner that, by turning the buttons, the cutters can be secured or detached at pleasure.

Claim.—First, the arrangement of two or more vertically-adjustable cutter-beams A B, each being provided with a series of oblique cutters C C', inclined laterally in opposite directions, in combination with the self-adjusting drag G, constructed and operating as and for the purpose shown and described.

Second, the arrangement of the notches i in the top end of the cutters C C* in combination

with the buttons j, as and for the purpose specified.

No. 36,246.—J. THOMPSON and D. D. DALRYMPLE, of Cross Roads, Ohio.—Improved Sawing Machine.—Patent dated August 19, 1862.—This invention consists in the arrangement of a horizontally sliding slotted frame or gate to which the saw is attached by a pivot, and which receives a reciprocating motion by means of an eccentric wrist-pin projecting from the face of a rotary disk, or other convenient means, in combination with a vertically sliding guide-frame, which serves to raise or lower the saw, and the weight of which assists in pressing the saw down upon the wood and facilitative the operation of cutting.

Claim.—The combination of the frame J, rollers ll, and clamp L, with the pivoted saw I, bow h, shank d, rollers e e, gate H, disk G, and wheel F, the whole operating together in the manner herein shown and described.

No. 36,247 .- STILLMAN THORP, of Turner, Maine. - Improvement in Car Coupling .-Patent dated August 19, 1862.—This invention consists in the employment of a chambered box or tube which holds the link, and which is made to slide into and out of the mouth of the spring draw bar at pleasure, and so arranged that the link is supported and guided into the mouth or opening of the opposite buffer whenever the cars are brought into contact with each

Claim.—The chambered sliding box or tube D, attached to buffer C, applied to and operating in connexion with draw-bar B, linked m and coupling pin i, substantially as set forth, for the purpose specified.

No. 36,248.—S. E. TOMPKINS, of Newark, N. J.—Improvement in Hooks and Terrets for Harness Saddles.—Patent dated August 19, 1862.—This invention relates to the construction of saddle hooks and terrets such as are covered with leather and provided with a metal lining to prevent the wearing of the leather under the friction of the reins and strap. The metal frame or body of the hook and terret are made in two parts, arranged in such a manner as to form a clamp to hold the leather covering which encloses the exterior part of the frame only while the inner part is made to serve the purpose of a metal lining.

Claim.—First, having the frame or body A of the hook or terret formed of two parts a b,

connected by screws or rivets, substantially as set forth. Second, the leather covering B, inserted between the two parts a b of the frame or body A, and fitted around the part b, with the rivets or screws passing through it, substantially as

and for the purpose set forth.

Third, the combination of the frame or body A, formed of two parts a b, connected together as shown with the leather covering B, when the parts are so arranged that the inner part a of the frame or body will form the metal lining of the hook or terret, and also the tip of the book, all in one piece, without a joint, while the part b serves as the body for the leather covering, as set forth.

No. 36,249 .- WILLIAM TUNSTILL, of Paterson, N. J .- Improvement in Braiding Machines .-Patent dated August 19, 1862.—Upon the vertical shaft c which gives motion to the parts of the braiding machine is a mitre wheel f, set so as to slide vertically on a feather or seat in the said shaft. Passing the shaft c by means of an eye is a lever g acting below the wheel f so as to hold it up in gear with a mitred gear revolving on a horizontal stud in the main frame; when the lever g drops, the mitre gear wheel f falls and becomes disconnected from wheel d and the machine stops. Over a horizontal stop motion lever k is a catch bar h, which, when

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on the lever k, holds up the aforesaid lever g, but when the said stop lever is moved aside by the weight that falls, a thread breaks and the catch bar k drops and thus stops the machine. Claim.—The arrangement of the lever g, catch bar h, and stop motion lever k, in combination with the mitre gears d and f, as and for the purposes set forth.

No. 36,250.—W. H. WALDBY, of Cooperstown, N. Y.—Improvement in Gram-Cleanse Machines.—Patent dated August 19, 1862.—This machine consists of a revolving frustum of a cone fitted within a corresponding shaped screen and provided with teeth or scourers, besters and brushes, and used in connexion with a blast fan and discharge spouts leading from the bottom of the screen.

Claim.—The screen D and the frustum of a cone C provided with the beaters or wings 44. brushes b b, and teeth or pins c, in combination with the fan G and spouts E F, all arranged

as and for the purpose herein set forth.

No. 36,251.-J. B. WATKINS, of New Bedford, Mass.-Improvement in Assnings.-Parent dated August 19, 1862.—The outer end of the awning is attached to a sliding board who rests on an inclined frame projecting from the building, the awning being connected to the frame by rings, and having cords attached and arranged in such a manner as to enable it to a easily and quickly drawn out or in, and also admit of better ventilation when drawn up was

to render it less liable to mildew and decay.

Claim.—Attaching the awning D to the framing A by means of the rings c, when saidings. are used in connexion with the stationary board or strip C and the sliding board or strip E z which the awning is attached, and cords or ropes de connected to the board or strip E. &

arranged as and for the purpose herein set forth.

No. 36,252.—WILLIAM WEBSTER, of Morrisania, N. Y.—Improved Fire-Damper Registor.—Patent dated August 19, 1862.—This apparatus consists of a metallic cylinder, in which is a piston of smaller diameter than the inner surface of the cylinder, the space between the cylinder and piston being filled with India-rubber as a packing and serving as an elastic resistance to the motion of the piston, which latter gives motion to the lever that operates in damper in checking the draught in the chimney.

Claim.—The combination and arrangement of the cylinder A A B B, the piston C C. sol

packing D D D, substantially as shown and described.

No. 36,253.—A. H. Young, of Boston, Mass.—Improvement in Band and Skirt-Hoop 4 tachments.—Patent dated August 19, 1862.—This invention consists in a method of shirts. the extremity of the skirt-hoop to a band extending down from the waistband of a lady! hoop-skirt, the said band with the metallic connexions of the hoop being subsequently covered with leather or other suitable material.

Claim.—Improved band and skirt-hoop attachment, consisting of the metallic class B and the projection a, constructed, arranged together, and applied to the band and skirt-hoop m

stantially as described.

No. 36,254.—J. H. BASSETT, of Salem, Mass., assignor to THE AMERICAN STRANGE COMPANY.—Improvement in the Manufacture of Illuminating Gas.—Patent dated Augus! 1862.—This invention is designed as an improvement in the manufacture of hydro-carbon gall for which a patent was granted to the said Bassett on January 3, 1860, and it consists passing superheated steam into a retort containing bituminous coal partly incandescent partly in a bituminous state; the incandescent part serving to decompose the steam as it come in contact with it, and the bituminous part, which is only heated but not incandescent. nishing to the hydrogen gas from the decomposed steam the carbon necessary to read; illuminating, or the balance which may be necessary, and which has not been obtained the incandescent coal.

Claim.—Passing superheated steam into a retort containing carbonaceous material party in an incandescent and partly in a bituminous state, substantially as set forth.

No. 36,255.—S. B. Everitt, of Plymouth Hollow, Conn., assignor to The Thomas Maxi-FACTURING COMPANY. - Improvement in Knife Handles. - Patent dated August 19, 1502-

The nature of this invention is explained by the claim.

Claim.—The construction of the handle of a pocket knife of two shells A A stampel of punched out of sheet metal or alloy, and having the ends of their concave interiors filled a because in the concave interiors filled a because in the concave in fusible metal or alloy, as shown at a a, and herein described, or with an equivalent filling a hard metal.

No. 36,256.—J. S. McCurdy, of Brooklyn, N. Y., assignor to Wheeler & Wilson Mast Facturing Company, of New York, N. Y.—Improvement in Sewing Machines.—Partidated August 19, 1862.—This invention consists in the combination of a reciprocal eye-pointed needle for carrying one thread, with a rotating hook-pointed shuttle for exterthe loop of needle thread and passing over the bobbin of a second thread by means or meple gearing in such a manner that the shuttle is caused to revolve two or more times face.

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than the crank-pin for operating the needle, so that the loop of needle thread carried round the body of the bobbin shall be extended to its greatest dimensions and freed before the needle rises to its highest point and in time to permit the stitch to be drawn tight during the ascent of the needle, notwithstanding the rotation of the shuttle, with uniform speed, the revolution of the shuttle being thus a multiple of that of the needle of the crank-pin. With the rotating shuttle is combined a thread guard to prevent the loop of needle thread thrown out by the rise of the needle from being misplaced before the point of the shuttle enters it.

Claim.—First, the combination of a reciprocating eye-pointed needle for carrying one thread with a rotating hook-pointed shuttle, by means of multiple gearing, operating in such a manner that the shuttle rotates two or more times as fast as the crank-pin, or its equivalent, for

imparting the reciprocating movement to the needle, substantially as set forth.

Second, the combination of a spool bobbin with a rotating shuttle by means of a central spindle, substantially as set forth.

Third, the combination of a rotating shuttle with a thread tenison for the shuttle thread that

remains stationary within the shuttle, substantially as set forth.

Fourth, the combination of a rotating shuttle with a thread guard for the needle thread, substantially as set for .

Fifth, the combination of a reciprocating eye-pointed needle and rotating shuttle with a

positive thread take-up, operated by a rock shaft of the needle mechanism, substantially as set forth.

Sixth, the combination of the members for operating the needle with the rotating shaft of a sewing machine through the intervention of a crank, in connexion with the combination of the spindle for operating the rotating shuttle with the same rotating shaft through the intervention of gearing, substantially as set forth.

Seventh, the combination of the rotating shuttle with the spindle that operates it, in such a manner that the shuttle is located over the head of the spindle and driven by a driver secured

to said spindle, substantially as set forth.

No. 36,257.—DAN READ, of Boston, Mass., assignor to A. A. TAYLOR, of the same place.—
Improvement in Covering Spinning Rolls.—Patent dated August 19, 1862.—This invention
consists of a central shaft with its bearings and two annular flanges in the form of a spool,
made of iron. India-rubber in a semi-fluid state is spread upon a strip of cotton or linen cloth
which is wound around the central shaft in the space between the flanges, until it rises above
the circumference of the same, when the India-rubber is vulcanized in the usual manner.

the circumference of the same, when the India-rubber is vulcanized in the usual manner.

Claim.—The combination of a spinning roll by the combination, in solid form, of Indiarubber with iron or other metal, and in said solid form vulcanized in the part composed of said

India-rubber, us herein described.

Also, the obtaining, by the aforesaid means, the harder and compact outer surface combined with an inner elasticity possessing the advantages aforesaid, and such other rolls as are substantially of the same construction, claiming to produce the same improvements.

No. 36.258.—J. H. & A. E. REDSTONE, of Indianapolis, Ind., assignors to Themselves and J. M. RAY, of the same place.—Improvement in Harvesters.—Patent dated August 19, 1862.—Reference to the specification and drawings will be necessary for a description of this invention.

Claim.—First, the device B when operated in connexion with the master-wheel A and frame,

mbstantially in the manner and for the purposes set forth.

Second, operating the sickles of a reaper by means of inclined slots in plates or ears attached

o the bar and operated upon by a connexion rod, substantially as set forth.

Third, operating the rake F by means of a crank placed over the main axle, and operated etween the master-wheel and the frame of the machine, substantially as described.

Fourth, the revolving band table, in connexion with the arms K, when operated substantially is set forth.

Fifth, the band-twister V', when constructed and operated substantially as set forth.

No. 36. 259.—R. A. STRATTON, of Philadelphia, Pa., assignor to G. W. CARR & Co., of the ame place.—Irrepresentent in Apparatus for Hardening Strips of Steel.—Patent dated Autst 19, 1862.—The nature and object of this invention are explained by the claim.

Claim.—First, hardening strips of steel or steel wire by passing them at a uniform speed, nd in a red-hot state, vertically through an opening in a trough containing water or other uitable fluids, when a constant stream of the latter is allowed to pass through the said opening in contact with and so as to surround the wire, as herein set forth.

Second, heating the said strips of steel or steel wire by passing them vertically through uides, and in contact with or adjacent to a series of flames, as herein described.

No. 36, 230.—R. A. Stratton, of Philadelphia, Pa., assignor to G. W. Carr & Co., of the ame place.—Improvement in Joints for Ribs of Umbrellas and Parasols.—Patent dated Autoria, 19, 1862.—This invention consists in casting a block of metal directly upon the rib fan umbrella at the point of connexion with the forked end of the stretcher, a slight indention being made in the wire so that the block will retain its position upon the rib.

Claim.—As a new manufacture, the block D cast to the rib A, and arranged for comerica to the stretcher B, as and for the purpose herein set forth.

No. 36,261.—R. A. STRATTON, of Philadelphia, Pa., assignor to G. W. CARR & Co., of the same place.—Improvement in Tips for Umbrellas and Parasols.—Patent dated August 19, 1862.—This invention consists in casting metal tips upon the steel ribs of umbriles and parasols in order to obviate the use of sharp exposed ends.

Claim.—As a new manufacture, metal tips cast on to the steel ribs of umbrellas and

parasols, as and for the purpose herein set forth.

No. 36,262.—EMIL TRITTIN, of Philadelphia, Pa., assignor to DAVID RICE, of New York N. Y .- Improvement in Lamp Burners .- Patent dated August 19, 1862 .- This invent a consists in forming the wick tube of the burner of two parts connected together in with manner that the upper part will be insulated from the lower part, and the wick tube thereby be prevented from conducting heat down to the fountain or reservoir of the lamp, so as is prevent an undue evaporation or volatilization of vapor. The cone and jacket are fitted to the burner in such a manner as to insulate the former from the latter, in order to prevent in heat from being conducted below to the fountain.

Claim.—First, constructing the wick tube of two parts B E connected together by the plate D and points c of the lower part A of the burner with a space g between them, sub-

stantially as and for the purpose herein set forth.

Second, in combination with the wick tube thus constructed the jacket G supported a :the burner by the points d of the plate D, as and for the purpose specified.

No. 36,263.—Turner Williams, of Providence, R. I., assignor to Himself and DATE HEATON, 2d, of the same place.—Improvement in Cranks for Driving Sewing Machines and other Machinery.—Patent dated August 19, 1862.—This invention has special reference in the control of improvement in cranks for driving sewing machines, &c., described in the patent granted to the said Williams on November 12, 1861, and it consists in a construction and arrangement friction pawls with the two auxiliary pins and a crank pin for the purpose of connecting all disconnecting the former and latter alternately at the proper time. The said friction partial properties are connecting to the former and latter alternately at the proper time. are maintained in their proper position to insure immediate action by means of a spring or nexion which causes each of the pawls to bind only when its eccentric arm moves in given direction. The connecting rod which connects the crank with the treads of consource of motion for attaching the said rod to the auxiliary pins is so constructed a operate the two friction pawls in the act of turning the crank by means of the treads. movement of the latter producing the binding action of the pawl connecting the advance is with the crank pin, thus assisting the latter to pass the "dead centre." So cured to the connecting rod is a flat spring which serves to take up any lost motion and enables the particular to pass the "dead centre." act instantly with each impulse of the treadle so as to insure the immediate action of its

Claim.—First, the construction and arrangement of the friction pawls L M substantially

as herein shown and described for the purpose specified.

Second, the use of a spring connexion k, or an equivalent yielding force, arranged and operating substantially as described for the purpose specified

Third, the peculiar construction of the connecting rod l, substantially as herein shorts

and described.

Fourth, the spring N, in combination with the connecting rod l, substantially as described for the purpose specified.

No. 36,264.—H. S. FISHER, of Newburg, Pa.—Improvement in Preserve Cans.—Proc. dated August 19, 1862.—This can is formed with an orifice at its top, having in the turned up to receive a fillet of paper properly saturated. Over this orifice and fillet is any a cap formed of a plate of tin pressed out at its centre so as to fit over the projecting eday the orifice. The cap is pressed down by means of a clamp or bar held in position by a ...? and hoop at either end.

Claim.—First, the can cap H, constructed with the plane portion d and bulge portion t connexion with the can top having a central orifice through it, all substantially in the

ner and for the purpose described.

Second, the combination of the cap H, constructed as described, can top and clamp L substantially in the manner and for the purpose described.

Third, the cap H in combination with the critice elevation c and fillet g, in the and for the purpose substantially as described.

No. 36,265.—WALTER AITKEN, of Newark, Ill.—Improved Current Water Wheel.—Partidated August 26, 1862.—This invention consists in so constructing a current water wa as to admit of its being readily raised and lowered to adapt it to the rise and falled to atream, the velocity and power of the wheel being controlled by allowing the floats to dp. the water or be submerged entirely therein.

Claim.—The arrangement of the horizontal power wheel A, the floats a, and the braces i.

as connected with A, in the manner described.

Second, the combination and arrangement of the vertical axis J, the wheel and axis B a

the ratchet d, the cogged semicircle B, or its mechanical equivalent, for imparting motion to B, with the chain or its equivalent e, for the purpose of elevating the wheel A, all constructed and operating substantially as and for the purposes delineated and set forth.

No. 36,266.—ALBERT ALBERTSON, of New York, N. Y.—Improvement in Bottle Stoppers.—Patent dated August 26, 1862.—This device consists of a small metallic standard upon the lower end of which is secured a button of a size sufficient to allow it to pass through the neck of the bottle. Upon this button and secured by a disk is a piece of rubber or other elastic material of a larger diameter than the button. At the upper end of the standard is secured a coiled spring so arranged as to keep the rubber stopper in close contact with the inside of the neck of the bottle.

Claim.—The application and use of a self-closing stopper for bottles, &c., constructed and operating substantially as described, so as to produce a perfectly tight stopper and which

will preserve any liquid or substance from evaporization or injury.

No. 36,267.—R. W. BENDER, of Chicago, Ill.—Improvement in Apparatus for Evaporating by Means of Steam.—Patent dated August 26, 1862.—This invention consists in connecting the waste pipe through which the spent steam escapes, either by the intervention of a receiver or without it, to the boiler, in such a manner that, by means of a double-acting pump, the cooled or condensed steam and water may be forced back into the boiler, by which means a supply of steam for heating or boiling of a higher and more uniform temperature is obtained and at a diminished expense of fuel.

Claim.—The application, combination, and arrangement of the receiver A, the pipes E and F, and the double-acting pump P, operating as described for the purposes substantially set

forth.

No. 36,268.—E. L. BERGSTRESSER, of Berrysburg, Pa.—Improvement in Horse-rakes.—Patent dated August 26, 1862.—The teeth in this machine rest in loops attached to the under side of a cross-bar, the ends of which are fitted in slots formed in projecting side pieces of the platform at the rear of the axles. This cross-piece is connected to a cylindrical shaft in front of it by means of two jointed rods. By moving a lever attached to this shaft the teeth are readily raised or lowered at the will of the operator.

Claim.—The construction and arrangement of the slotted sides H H, in combination with the vibrating cross-bar K and connecting rods N, as arranged with the roller Q, for the pur-

pose of raising the teeth with greater regularity and facility, as herein described.

No. 36,269.—A. G. BINNS, of Goshen Township, Ohio.—Improvement in Churns.—Patent dated August 26, 1862.—To the upper end of the dasher shaft is secured a horizontal toothed wheel into which meshes a straight rack. To the ends of this rack are attached wooden springs secured at their upper ends to the upper cross-bar of the frame. As the rack is vibrated a rotary motion is imparted to the dasher.

Claim.—The arrangement and combination of the springs G, rack K, and wheel I,

arranged and combined as herein described and for the purposes set forth.

No. 36,270.—G. W. BLAKE, of New York, N. Y.—Improved Self-Regulating Apparatus for Feeding Steam Boilers.—Patent dated August 26, 1862.—This apparatus is composed of a closed vessel, arranged at a suitable distance above the intended level of the water in the boiler, and connected by two separate pipes with the boiler, and by a third pipe with an elevated reservoir, from which it may be filled by gravitation. Combined with the above is a system of valves and an arrangement of levers, weights, an expanding chamber and a float, whereby, whenever the water in the boiler gets below a certain desired level, the said vessel is caused, without manipulation, to empty itself into the boiler and be refilled from the reservoir or head, the process being repeated until the water has risen again to the desired level, when the operation ceases.

Claim.—First, the expanding chamber I J K L, loaded lever M, float R, rock shaft Q, tappet s, lever P, rod E, weight G, catch H, and hook p, or their equivalents, the whole arranged and applied in combination with each other and the valve spindles c d, and with the

vessel A, to operate substantially as herein specified.

Second, the arrangement of the steam and water pipes C and D, and their valves and valve spindles c d, in such manner that the two valve spindles will occupy the same horizontal line, and thereby provide for the two valves being operated simultaneously by a weight acting vertically, substantially as and for the purpose herein described.

No. 36,271.—SUMMER BLODGETT, of Glover, Vt.—Improved Wringing Machine.—Patent dated August 26, 1862.—This machine is provided with two rollers, one of which is elastic and the other inelastic, the latter being supported by means of endless suspension bands and their pulleys in combination with springs. The rollers are attached to a frame having its standards secured to a platform upon which the tub is placed when in use.

The pressure of the rollers upon each other is regulated by means of an adjusting screw working upon a rod passing through a rubber spring, and attached at its lower end to an endless band which passes over pulleys and over the extended shaft of the inelastic rubber.

Claim.—The improved cloth squeezing machine as constructed with one elastic and one inelastic roller, and with the latter suspended in endless bearing bands supported by pulleys, as specified.

Also, the combination and arrangement of the tub platform B with the roller frame A, and

its rollers C D, as specified.

Also, supporting the lower or wooden roller by means of the endless suspension bands and their pulleys, in combination with springs, the whole being arranged and applied to the said roller and its frame, substantially in manner and so as to operate as specified.

Also, the arrangement of the adjusting screws and their washers with the springs, forks.

endless bands and pulleys, as applied to the lower of the rollers, as set forth.

No. 36,272.—Adeline J. Brooks, of Philadelphia, Pa.—Improvement in Corsets.—Patent dated August 26, 1862.—The upper part of the corsets is formed of curved pieces of whalebone below which are straight pieces of whalebone without any intermediate belt, and between these straight pieces are inserted gores.

Claim.—A corset comprising the bowed pieces c' c' c c c c c' c', straight pieces B' B B B. within an intermediate zone or band and the gores A, all combined and arranged substan-

tially as described.

No. 36,273.—C. F. Brown, of Warren, R. I.—Improvement in Mounting Ordenze.—Patent dated August 26, 1862.—This improvement relates principally to the method of mounting orden and the method of mounting the control of the method of mounting orden and the control of the method of mounting orden and the control of the method of mounting orden and the control of the method of mounting orden and the control of the ing a cannon for which a patent was granted to the said Brown on July 17, 1855, and it cutsists in combining the gun with the spheroidal or spherical portion that serves to close : ** opening or porthole by means of a slide, so as to enable the gun to be moved back into the vessel or fort and turned in such a manner to admit of its being loaded at its breech or muzle without exposure to the enemy's guns.

Claim.—Combining the gun with the spheroidal, spherical, or circular portion A of the carriage by means of a vertically moving slide B, or its equivalent, whereby it is permited to recoil or move back far enough to bring its muzzle within the said portion of the slide and so permitted to be brought within the vessel in such manner as to enable it to be looked

either at its muzzle or breech, substantially as herein specified.

No. 36,274.—JOHN CARTON, of Utica, N. Y.—Improvement in Railroad Lamps.—Paten: dated August 26, 1862.—This invention consists in inserting in the space between the two tubes, which compose the burner below the wick and above the feed tube, a perforated metallic ring for the purpose of closing the space and compelling the oil fed to the wick to pass through such perforations, by which means an excess of oil is prevented from being thrown upon the wick by the jarring of the car, and also smoking of the lamp and waste of oil is prevented.

Claim.—The perforated ring, (one or more,) or other equivalent material, in combination with the tubes B' and B, constructed and operating substantially as described.

No. 36,275.—S. C. CHAMBERLIN, of Berlin, Mass.—Improved Shoulder Stick for Finishing Boot and Shoe Soles.—Patent dated August 26, 1862.—This device consists in the conbination of a stationary gauge and adjustable polisher or reducing block with a socket and clamping devices, so that the polishing tools are separate from the gauges and can be adjusted as circumstances may require, and so as to admit of the substitution of one kind of polisher for another.

Claim.—The improved shoulder stick as made with the stationary gauge c, the separate and adjustable polisher or reducer d, the socket a, and the shoulder f, and its clamp-screw 4.4

plied to the socket, and a cap b, substantially as specified.

No. 36,276.—A. P. COCHRAN, of Louisville, Ky.—Improvement in Retainers for Tobacco Presses.—Patent dated August 26, 1862.—The base and cap piece of the retainer are connected together by posts, the inner sides of which are parallel with each other, while the outer sides are inclined from the base upwards. The follower is guided in its upward and downward motion by tongues passing through slots in the posts. A retaining bar also passes through these slots and through flanges in the follower, and retained in position by a thumbnut, the inclined shape of the outer surfaces of the post causing the rod and the washer blocks to hold the follower rigidly in its compressed position.

Claim.—Improved retainer for tobacco presses, the said retainer being composed of the base H, the cap F, the upwardly tapering and slotted connecting posts G G', the follower J. the retaining rod a, the washer blocks c c', and the screw nut b, or the equivalents of sale warts when arranged, combined and operating with each other, substantially in the manner

and for the purpose herein set forth.

No. 36,277.—J. H. CONNELLY and JOHN COOK, of Wheeling, Va.—Improvement in Wick for Lamps.—Patent dated August 26, 1862.—This invention consists of a tubular lamp with having a nap on its inner surface for the purpose of facilitating, by capillary attraction, the ascension of the heavier kinds of oil, and providing for the escape of any excess of gases of vapors in the lamp.

Claim.—A tubular wick having a nap on its inner surface, substantially as herein described

No. 36,278.—G. H. CORLISS, of Providence, R. I.—Improved Steam Boiler.—Patent dated August 26, 1862.—This invention consists of a series of cylindrical generators containing tubes, within which the products of combustion are received from the furnace and passed into the chimney. These generators surround a circulation reservoir for the steam and water, the two being connected by means of short tubes near the lower ends of the generators. Connexions are also provided for supplying water from the reservoir to the generators, and for the passage of heated water back into the reservoir.

Claim.—The method of constructing steam boilers by combining cylindrical circulating

reservoirs with cylindrical tubular generators, arranged and connected substantially as and

for the purposes specified.

No. 36,279.—G. H. CORLISS, of Providence, R. I.—Improved Method of Preventing Steam Boilers from Priming.—Patent dated August 26, 1862.—The object of this invention is so to arrange the pipes which carry off the steam from the boiler as to prevent their exposure in naval warfare, without incurring the difficulty of priming; which is effected by means of the employment of numerous tubes through which the steam is passed before it reaches the main pipe, instead of apertures through the shell of the pipe.

Claim.—The method of preventing the priming of steam boilers by conducting the steam from a common steam chamber to the main pipe, through numerous tubular orifices, arranged

substantially as and for the purpose specified.

No. 36,280.—G. H. Corliss, of Providence, R. I.—Improved Surface Condenser.—Patent dated August 26, 1862.—To the upper side of a reservoir of the steam to be condensed are connected cylindrical tubes, flattened at their upper ends so as to form a contracted aperture for restricting the exit of air or vapor from within the tubes, for the purpose of preventing the steam which enters from the reservoir from passing through the tubes too rapidly for insuring perfect condensation.

Claim.—Constructing the tubes or condensing chambers of surface condensers with re

stricted apertures, substantially as described and for the purposes specified.

Also, the combination of a receiver A with a series of tubes B B, or their equivalents, each of which connects at one extremity with said receiver and at the other with the open air, substantially as described.

No. 36,281.-G. H. Corliss, of Providence, R. I.-Improvement in Steam Generators.-Patent dated August 26, 1862.—The steam generator for the evaporation of salt or impure water is attached to the rear of the boiler, and is so constructed as to form a connecting flue from the boiler to the chimney and thus utilize the waste heat. This generator is connected with the surface condenser by an open pipe of sufficient area to give a free passage to the steam. A coil connected with the boiler by a pipe is placed in the bottom of the generator to increase the evaporation whenever the heat of the flue may be insufficient.

Claim.—A combination of a surface condenser with a supplementary generator which

takes its heat from the flue leading to the chimney, for the purpose set forth.

Also, the combination of a surface condenser, a supplementary generator and coil of steam pipe, substantially as and for the purpose described.

No. 36,282.—T. M. DAVIS, of Philadelphia, Pa.—Improved Refrigerator.—Patent dated August 26, 1862.—The lining of this refrigerator is made of plates of glazed clay or stone ware, fitted and bolted together with packing or cement between their joints, so as to form a smooth air-tight surface.

Claim.—A refrigerator having its inner walls or lining A made of glazed plates, of clay or stone ware, constructed and secured together substantially in the manner described and set

forth, for the purposes specified.

No. 36,283.—John Dean, of Worcester, Mass.—Card Holder.—Patent dated August 26, 1862.—This device is formed of a single piece of sheet metal, the outer edges of which are cut in some ornamental form. From the centre of this plate a piece of the metal is taken out by means of a stamp to form the opening for the picture; three of the sides of the opening are of irregular outline so as to admit of the projecting edges being folded back and serve as clamps to secure the picture and glass in place.

Claim.—Forming a portable frame or porte carte-de-visite from a single sheet of metal, in

the manner described herein.

No. 36,284.-W. E. DOUBLEDAY, of Brooklyn, N. Y.-Improvement in Hats.-Patent dated August 26, 1862.—This invention consists in reversing the surfaces of the material of which the hat is formed, after it has been pressed, whereby the uninjured interior surface becomes the outside of the hat; the surface which has been subjected to the action of the female die forming the inside of the hat.

Claim.—A hat manufactured as herein specified, by inverting the surfaces after they have

been shaped between heated dies, as set forth.

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No. 36,285.—ALEXANDER DUNCAN, of York, Pa.—Improvement in Smut Machines —Patent dated August 26, 1862.—Upon the upper part of a vertical shaft is secured a rotating plate I having a circular horizontal bottom and inclined sides and provided with vertical spikes, over which is placed a corresponding stationary plate provided with teeth and a pendant rim. Below the plate I is arranged a cylinder formed of annular rims connected by vertical rods or beaters and provided internally with a fan H. Surrounding this cylinder is a perforated curb or hollow cylinder of sheet metal, provided on its inner surface with vertical bars bevelled on their inner surfaces and provided with teeth placed in an inclined position. Below the fan H is a horizontal plate connected with a box that forms, by means of inclined

bottoms, two air chambers, communicating at their lower parts with spouts that lead to two

outwardly inclined spouts communicating with the lower fan case.

Claim.—First, the rotating concave plate I, provided with a circular horizontal bottom j and vertical spikes k, in connexion with the stationary plate K provided with the teeth l and a pendant rim m, arranged as and for the purposes specified.

Second, the cylinder G, formed of the annular rims f f, connected by the vertical rods or beaters g, and provided internally with the fan H, in connexion with the perforated curb of hollow cylinder L and bars M, having bevelled toothed surfaces o o, arranged as herein set

Third, the combination of the air chambers d d, blast spouts N N, and fans H C, arranged with the cylinder G, to operate in conjunction therewith, as and for the purpose specified.

No. 36,286.—A. K. EATON, of New York, N. Y.—Improvement in the Manufacture of Soop — Patent dated August 26, 1862.—This invention is explained by the claim.

Claim.—The use, as a constituent in soap making, of the refuse liquors which result from the treatment of straw or other vegetable fibres with alkalies, the said refuse liquors containing alkali and more or less silica and resin.

No. 36,237.—HENRY EDDY, of North Bridgewater, Mass.—Improvement in Cribs for Horses.—Patent dated August 26, 1862.—This crib is of box form, and provided with an opening in front, having around its edges a metal covering in connexion with an elastic material to protect it from the teeth of the horse. At each side of the lower part of the crib are placed inclined pieces of board, which may be made adjustable for the purpose of guiding the feed to a proper place. Inclined planes or partitions serve to prevent the hay, &c., from coming in contact with the horse's head, the lower end of which partitions may be adjusted to enlarge or diminish the openings on each side.

Claim.—First, the metallic collar A, with or without the flange t, in combination with the

crib, substantially as described and for the purpose herein set forth.

Second, the use of the adjustable regulators of the feed M N, in combination with the sides

of the crib E X, substantially as specified.

Third, the elastic material g, in combination with the spring C, substantially as described and for the purpose herein set forth. Fourth, the manner of connecting and adjusting the plates B and O, as and for the purposes

specified. Fifth, the variable openings d, p, substantially as described and for the purpose herein set

No. 36,288.—W. M. and J. B. Ellis, of Washington, D. C.—Improvement in Steam Boilers.—Patent dated August 26, 1862.—The water legs of this boiler extend continuously from front to rear, and communicate with the body of the boiler by a series of openings through the shell of the boiler or through a plate connecting the flanges of the legs with the shell at the working water-line of the boiler, by which means the water is allowed to circulate freely from the legs to the boiler, and vice versa, and consequently the tendency to priming is avoided. The tubes are made of gradually increasing area from the upper to the lower series to prevent the products of combustion from passing too freely into and through the upper series of tubes, and so as to dispose the heat more equally and regularly through the water.

Claim.—First, connecting the water legs, extending continuously from the front to the rea of the boiler, to the shell of the boiler at the point of the working water-line of the boiler,

substantially as herein set forth.

Second, gradually increasing the area of the tubes from the highest to the lowest tubes, as described.

No. 36,289.—H. V. FARIES, of Indianapolis, Ind.—Improvement in Pipe Wrenches.—Patent dated August 26, 1862.—A jaw of hooked form is connected by a pivot to a rigid or stationary jaw at the end of a handle or lever, the hook jaw extending over the face of the rigid jaw so that the implement will firmly grasp the article to be turned and adjust itself to its size, and also readily release itself at each backward turn of the lever handle. The hooked jaw is kept in contact with the stationary jaw by means of a flat spring secured to the latter and bearing upon the back of the hooked jaw.

Claim.—The jaw C, of hook form, when attached to the jaw B, and arranged relatively

therewith to operate as and for the purpose herein set forth.

Also, the spring D, in combination with the jaws B C, arranged as and for the purpose specified.

No. 36,200.—W. O. C. Fritschler, of Brooklyn, N. Y.—Improvement in Weighing Apparatus.—Patent dated August 26, 1862.—This apparatus consists of a bent lever, having its fulcrum in the upper end of a standard, upon one end of which lever is suspended the chain or scoop that holds the article to be weighed. The other end or arm forms an arc, described from the fulcrum as a centre, so that a scale, murked on the said arc, is caused to move behind a stationary index. The said end or arm is provided with a weighted box which contains one or two plumbing devices operating upon indices placed on the outside of the covers of the weighted box for the purpose of controlling the operation of the apparatus.

Claim.—The arrangement of the weighted box D, containing the plumbing devices k, o, l,

in combination with the scales marked on the covers i j and on the arc d, and with the bent

lever A, all constructed and operating substantially as shown and described.

No. 36,291.—J. S. GAGE, of Downglac, Mich.—Improvement in Seed Coverers for Grain Drills.—Patent dated August 26, 1862.—This device is formed with two covered pointed plates with spaces between them to allow the soil to pass through as the machine is drawn along, and having a slight projection on its upper edge, upon which a weight may be placed to press the coverer into the ground.

Claim.—The coverers A, open space B, and projection C, when combined and arranged to

operate in the manner and for the purpose set forth.

No. 36,292.—A. C. GALLAHUE, of Katonah, N. Y.—Improved Machine for Pegging Boots and Shoes.—Patent dated August 26, 1862.—The nature and object of this invention will be

understood from the claim; it does not admit of a brief description.

Claim.—First, the device as described for feeding the peg wood and pegs forward, to wit, by bringing the peg wood between the surface r and the roller a', fig. 3, and in such connexion with the ratchet c', fig. 1, and pawl d' and sliding box D', that by each backward movement of said guide box the ratchet C' is brought against the stationary pawl d', and the peg wood and pegs are thereby moved forward previous to the descent of plunger H, as set forth.

Second, conveying the pegs forward by means of the peg receptacle t'', directly over the belo or character in the stationary shoulder in such

hole or chamber in the stationary shoulder U, and driving them through said shoulder in such a manner that the plunger shall be limited in its descent by the lower surface of the shoulder,

so as not to indent the sole.

Third, cutting off the pegs laterally from a strip of peg wood by the movable knife E' being

brought against the surface of r, fig. 3, as set forth.

Fourth, the arrangement of the two frames J M, as shown. One, J, connected with the weight L, and the other, M, pivoted to J, and used with or without the spring R, for the purpose of keeping the boot or shoo properly presented to the awl and plunger, and thereby obviating the necessity of guiding the shoe by hand.

Fifth, the combination of the two slotted levers E E', and the awl and plunger bars F F',

box I, and guide box D'.

Sixth, the double-jointed feeding pawl Z operated from the shaft B', as shown, when used in combination with the ratchet X, pinion W and rack P on block O, placed in the frame M, and arranged substantially as shown, to properly feed the boot or shoe to the awl and plunger, and also to adjust its operations to the various sizes of the shoes pegged.

No. 36,293.—W. F. GRASSLER and A. J. CUTTER, of Lewisburg, Pa.—Improvement in Car Complings.—Patent dated August 26, 1862.—This invention consists in the employment of a hinge pin or bolt in connexion with a movable block, so arranged as to cause the cars to be coupled when they come in contact. The bolt is kept in position by a spring cap, which is operated by a lever to release the coupling link when necessary.

Claim.—The use of the hinge pin or bolt A in movable block B, in combination with the

spring cap C, to throw it back into position, to be a self-coupler.

Also, the lever D when the same is used in combination with said hinge pin or bolt A, and movable block B, as set forth and described.

No. 36,294.—Robert Hamilton, of Franklin, Ind.—Improved Portable Sugar Evaporator.—Patent dated August 26, 1862.—From the front end of the evaporating pan projects outwardly a flange within which fits the inner side of the furnace box, in such a manner as to prevent the incandescent fuel from being brought in contact with the pan, and also to prevent the flame from passing directly into the heating flues which extend through the pan. At the head of the pan is a vertical sliding damper for closing the mouth of the flues when desirable; the furnace box is also provided with a hinge damper in front, by means of which the amount or intensity of heat may be controlled and regulated.

Claim.—Giving such a shape to the furnace box B that it can be combined with the head of the evaporating pan A, by means of the flange F, and in such a manner that the said flange will prevent the incandescent fuel from being brought into direct contact with the said pan, whilst it will also prevent the flame from passing directly into the flues g g, all substantially

as herein set foth.

Also, when the evaporating pan A is supplied with the flange F, and with the flues g g, combining the dampers l and m with the furnace box B, substantially in the manner and for the purpose herein set forth. Digitized by GOOGIC

No 36,295.—W. W. HANES, of Covington, Ky.—Improvement in Explosive Projectiles for Ordnance.—Patent dated August 26, 18:12.—The projectile is composed of three principal parts, arranged in such a manner that the surrounding outside shell forms the hammer to the nipples or percussion caps attached to the inside shell or charge chamber. The inside shell or charge chamber is separated from the outside shell at the end containing the nipples and percussion cap, by a cushion of such substance as will prevent the nipple and caps from coming in contact with the outside shell, until it is desirable to be exploded by striking some object with sufficient force to cause the cushion to yield, and allow the charge chamber to advance forward, causing the inside caps to come in contact with the inside of the surrounding shell, thereby producing an explosion of both shells.

The outer shell is provided with projections, or ribs fitting in corresponding grooves in the

inner shell, to prevent the latter from turning independently of the outer shell.

Claim.—First, constructing projectiles for ordnance with an outside shell consisting of two

parts screwed together, for the purpose and in the manner set forth.

Second, also an independent inside shell or charge chamber, with two or more nipples and percussion caps attached, for the purpose of securing greater safety in charging, and certainty of fire when in use, substantially as described.

Third, further, the cushion C, for the purpose and in the manner specified.

Fourth, the projections or ribs E E with their corresponding grooves, for the purpose herein set forth.

Fifth, the combination of an outside shell made in two parts A A, with an independent charge chamber B, containing two or more nipples and percussion caps, with the projection or ribs E E and cushion C, substantially as described.

No. 36,296.-G. L. HARRIS, of Mobile, Ala., and SAMUEL HARRIS, of Springfield, Mass.-Improvement in Sifting Machines .- Patent dated August 26, 1862 .- This invention consists in the combination of an inclined sieve with a triangular propelling cam and double inclined agitators, the latter being arranged upon the bottom of the sieve to pass over friction rollers so that while in operation the sieve will have an undulating vertical motion together with a longitudinal motion in a plane parallel with the inclination of the machine.

Claim.—The inclined sifter A in combination with the triangular cam E, and double-inclined

agitator k, in the manner and for the purpose substantially as described.

No. 36,297 .- J. K. HARRIS, of Allensville, Ind .- Improvement in Baling Presses .- Patent dated August 26, 1862.—This invention is designed as an improvement upon a press for which a patent was granted to the said Harris on August 20, 1861, and it consists in combining a follower with a system of levers, constructed and arranged in such a manner that the follower may be made to serve the double purpose of a follower and beater, and when acting as the latter serving to fill the press box, and compacting the material to be compressed thereon so that it shall be in proper condition for the subsequent pressing operation of the follower.

Claim.—First, the levers J J and arms N N, in connexion with a follower and bester B,

arranged to operate as and for the purpose herein set forth.

Second, the slides O O connected with the arms N N of the levers J J, in connexion with the sliding bars d d on the follower B, all arranged substantially as and for the purpose herein set forth.

No. 36,298.—S. H. HARTMAN, of Pittsburg, Pa.—Improvement in Machines for Punching Lynch-Pin Holes and Cutting off the Journals of Arles for Wagons, &c.—Patent dated August 26, 1862.—This invention consists in cutting off and punching the linch-pin holes in the journals of wagons and other carriages at uniform distances from the shoulders of the said journals—the punching being done while the journal is tightly gripped and held to prevent the punch from spreading or cracking the metal, and the whole operation of gauging, catting off, gripping, and punching, following each other in such rapid successsion as to make them

practically one operation.

Claim.—The combination of the clamps, the cutter and the punches, for holding, cutting off, and punching the linch-pin holes in the journals of wagon and other similar axles, the

mechanism being constructed and operating substantially as herein described.

No. 36,299.—S. H. HARTMAN, of Pittsburg, Pa.—Improvement in Slide Valves for Steam Engines.—Patent dated August 26, 1862.—This invention consists in making the valve in two parts, one of which has a groove all around it, in which is placed a packing of rubber or its equivalent; the other part is provided with a tongue which fits into the groove of the first-named part and rests upon the rubber packing, so that the rubber shall press the two parts of the valve against their respective sides of the chest, but at the same time yield, should any undue pressure come upon one or both sides of the valves.

Claim.—In combination with a valve open through the centre, or with a lid made in two pieces, a groove or recess in one piece containing rubber packing, and a tongue or shoulder in or on the other piece, to bear against said rubber packing, for the purpose of making the sides of the valve work steam-tight, or nearly so, on opposite sides of the chest, as set forth.

No. 36,300.—Josiah Hayden, of Haydenville, Mass.—Improvement in Water Elevators.—Patent dated August 26, 1862.—The links that form the chain are each composed of one piece of wire bent in the form shown in the engraving, so as to present one side of the bucket uniformly to the spout. The periphery of the windlass wheel is formed into angular shaped teeth with the outer ends flattened, between which the links of the chain are caught.

Claim. - First, the curves c d c, in combination with the straight rods a and hooks b, em-

bracing the curves c c of another link, as and for the purpose specified.

Second, the windlass wheel W, in combination with a flat chain, constructed as herein described and for the purpose set forth.

No. 36,301.—WILLIAM LARRABEE, of Clermont, Iowa.—Improvement in Grain Winsowers.—Patent dated August 26, 1862.—This machine consists of an upright spout, to the upper part of which is connected a fan box provided with a discharge spout and grain openings. In one side of the spout is a system of valves arranged in series of three, more or less, like the slats of a window blind, the valves of each series being connected by staples to a bar, so that each series may be closed and opened simultaneously with, or separately from, the others. Within the spout is also placed another series of valves which, when closed, form an inclined partition within the spout. The bars of these valves are operated by means of rods extending up through the top of the spout, so that each series may be opened and closed separately.

Claim.—The upright blast spout suction A, in combination with the valves F H, arranged

as shown, and the fan D, as and for the purpose herein set forth.

Further, the supplemental valves K K, adjustable hopper M, and draught passage c, when arranged and combined with the valves F H, as and for the purpose herein set forth.

No. 36,302.—Francis Murray, of Baltimore, Md.—Improvement in Stamp Heads for Crushing Ores.—Patent dated August 26, 1862.—The stamp head is constructed in two separate parts, the lower one of which is cast in a chill, with a wrought-iron shank dove-tailed at its lower end and slotted near the top to receive an iron key, which passes through it and the upper portion of the stamp head. Upon the upper face of the lower portion, and surrounding the shank, is a plate of copper, or other ductile material, which serves to relieve the shoe from the excessive shocks of the blows.

Claim.—First, in a stamp head, the working face of which is cast in a chill, and is capable at pleasure of being attached to or removed from an upper or main section, so constructing the same by casting it around and upon a wrought-iron shank that said shank shall serve as a coupling to unite the shoe to the upper section of the stamp head, and also be capable of being used thereafter to cast a new working face or shoe upon, substantially as described.

Second, in connexion with a stamp head for crushing ores, the use of a ductile metallic buffer, or its equivalent, substantially in the manner and for the purpose described.

No. 36,303.—H.W. PUTNAM, of Cleveland, Ohio.—Improved Mangle.—Patent dated August 26, 1862.—This invention relates to the method of constructing the framework and securing the ends together, and also of attaching the machine to the leaf of a table and to the finger gear, so that the rollers will be caused to move in concert without slipping when substances are introduced between them.

Claim.—The framework A F G H, in combination with the rollers B B', finger gear I I, foot piece K, claw and set screw L, when these parts are constructed, arranged, and operated

substantially as and for the purpose set forth.

No. 36,304.—E. A. L. ROBERTS, of New York, N. Y.—Improved Thermometrical Steam Gauge.—Patent dated August 26, 1362.—This invention consists in the construction of a metallic thermometrical gauge of one or more fusible metals or alloys so compounded as to fuse at different temperatures, and used in combination with a float or standard resting upon the surface of such metal or alloy, so that, as the latter fuses, the said weight or standard will descend, and thus give immediate notice of the existing state of the temperature or of any change of heat or pressure.

Claim.—A metallic gauge, consisting of one or more fusible metals, in combination with the indicator or indicators b b, or their equivalent, so as to indicate by their position or motion, and either with or without an alarm, the temperature of a steam vessel, the whole constructed

substantially as and for the purpose set forth.

No. 36,305.—HARRY SEYMOUR, of Dartmoor, Great Britain.—Improved Artificial Fuel.—Patent dated August 26, 1862.—This invention consists in the employment of petroleum in its natural or in a refined state, or of coal oil or allied manufactured substances, in combinations of the combination of the co tion with certain mineral substances, such as silica, alumina, lime, and oxygenated mangane e, which are mixed with refuse vegetable matter, such as peat, earth, sawdust, tanners' bark, &c., for the purpose of obtaining a fuel which can be used in the place of wool or coal.

Claim.—The composition for an artificial fuel, made of the ingredients and in the manner

and proportions herein set forth.

No. 36,306.—AARON SMITH, of Brooklyn, E. D. N. Y.—Improved Gas Regulator.—Patent dated August 26, 1862.—This invention consists in an arrangement of the passages provided between a throttle or other balanced valve employed to regulate the flow of gas, and the interior of an inverted cup, within which the pressure of the gas acts with a tendency to close the valve, and an arrangement of the connexions between the said valve and cup, so that the device may be applied between the main pipe and the meter to regulate and equalize to pressure of the gas before its entrance into the meter and insure an accurate measurement. the gas, and also to regulate the burners.

Claim.—Combining the throttle or other balanced valve E, and floating inverted cup D, by the arrangement of passages C c k k, and crank connexions k k k, substantially as here.

described.

No. 36,307.—C. W. SMITH, of Evans, N. Y.—Improved Washing Machine.—Patent dated August 26, 1862.—Through the handles of an ordinary wash tub are placed the ends of a cross-bar which supports an upright or standard to which the lever is attached. To the lever is pivoted a shaft having a dashboard secured to its lower end.

Claim.—The combination of the dasher F, the bar B, the standards C E, and the lever D. arranged to be used in connexion with an ordinary wash tub, substantially as described.

No. 36,308 .- P. A. STECHER, of New York, N. Y .- Improved Lamp-Shade Holder .- Paict dated August 26, 1862.—This device consists of a series of radial braces, the ends of what are bent in opposite directions, and which are connected and held in place by two or me rings, so that when applied to the chimney of a lamp, the upper ends of the braces rest up. the bulb and the shade is supported by the lower ends.

Claim.—A lamp-shade holder A, constructed and applied substantially as herein shows

and described.

No. 36,309.—ALOIS SCHWEIZER and GEORGE JANSEN, of Cleveland, Ohio.—Improved Scrubbing Brush.—Patent dated August 26, 1862.—This invention consists in combining with a scrubbing brush an elastic rubber placed at such an angle to the brush as to allow either to assume a perpendicular position on the floor when the handle is held in position for use.

Claim .- As a new article of manufacture, a combined floor scrubber and wiper, when the several parts are constructed and arranged substantially in the manner and for the purpox herein described.

No. 36,310.—R. M. STIVERS and G. W. V. SMITH, of New York, N. Y .- Improvement in the "Fifth Wheel" of Carriages.—Patent dated August 26, 1862.—This invention consists in a constructing a spring brace and combining it with the fifth wheel, (which latter consists two curved pieces fitting the one over the other,) as to make it serve the double purpose of a spring and stay rod, by which means the two parts of the wheel are kept always in contact and prevented from rattling without binding or causing undue friction of their rubbing sm

Claim.—The combination of the stay rod or spring brace G with the perch A, front axe C. and parts a and b, the whole constructed and arranged in relation to each other as and is the purpose set forth.

No. 36,311.—A. E. TEAL and WILLIAM RANSOM, of Cicero, Ind.—Improvement in Small and Grain-Cleaning Machines.—Patent dated August 26, 1862.—Upon each side of the machine is a vertical spout connected at its upper end by a horizontal passage g to a fan case. Tapassage is provided with valves made adjustable so as to regulate the strength of the base. An adjustable valve is also placed in a small cylinder fitted upon each upper part g of to spouts. In the upper part of the machine is a fan provided with a tubular shaft. The tase communicates by means of spouts with a cylindrical screen provided with a leater with a former of the day of the is formed of blades attached to the ends of arms secured to a hollow shaft, the object being to break the smut and separate it thoroughly from the grain, the latter being at the same use separated from light impurities and chess.

Claim.—First, the valves I placed within cylinders N on the spouts K, and regulated in springs and nuts, as shown, or their equivalents, in connexion with the valves L M, and -

charge openings A', for the purpose specified.

Second, the tubular perforated shafts J D of the beater I and fan C, when said beater fan are arranged in connexion with the suction spouts K K and blast spout E, to operate as set forth.

No. 36,312.—ELI THAYER, of Worcester, Mass.—Improvement in Plane Angulometers—Patent dated August 26, 1862.—This invention consists in so constructing and hanging pendulum and connecting it with a portion of the surface of a sphere that it will indicate at once whether any plane to which it is applied is level; and if not so, will show the degree is the angle, whether of elevation or depression, which such plane makes with the berizon

Claim.—The pendulum moving upon three or more bearings in the same plane, and car ing upon its top a graduated arc, and its combination with the spherical surface, and the opening therein, substantially as set forth and described, and for the purpose indicated. No. 36, 313.—W. H. Towers, of New York, N. Y.—Improvement in Pins.—Patent dated August 26, 1862.—This invention consists in enlarging the ordinary pin near its point, for the purpose of preventing it from becoming casually detuched from the clothing or article in which it is placed.

Claim.—A pin for securing clothing and other objects, made with a slight spherical or oval

enlargement near the point, in the manner and for the purpose described.

No. 36,314.-J. F. Townsend, of Cambridgeport, Mass.-Improvement in Spermatorrheal Rings.—Patent dated August 26, 1862.—The nature of this invention will be understood by

reference to the claim and engraving. Claim.—The instrument composed of the two bows A B, made with a rest b, and jointed together as described, the band $\hat{\mathbf{C}}$, adjusting screw e, set screw a', and nuts gf, the whole com-

bined as herein set forth.

No. 36,315.-W. F. WARBURTON, of Philadelphia, Pa.--Improvement in Army and Nava. Caps.—Patent dated August 26, 1862.—Attached to and forming a part of the cap is a loose fold provided with an elastic band or loop, and used in connexion with a detachable cape, so that the fastenings which secure the cape to the cap may be concealed by the said fold

Claim. - The loose fold b, with its elastic loops, or their equivalents, in combination with the detachable cape G, the whole being arranged substantially as set forth for the purpose specified.

No. 36,316.—J. R. WHITTEMORE, of Chicopee Falls, Mass.—Improvement in Huy or Feed Cutters.—Patent dated August 26, 1862.—The mouth-piece of the machine is formed of a single piece of metal, provided with flanges, to which the frame is attached. The cutter lever, to which the knife is secured, has its fulcrum upon an extended portion of the monthpiece. The fulcrum consists o'a hub, through which passes a bolt formed with a spherical portion, and so connected with a wedge as to admit of the cutting edge being set in or out nom the face of the mouth-piece, so that it can be kept pressed against the same throughout its whole cut.

Claim.—First, the combination of the hopper B, legs CC, and flanged mouth-piece A, constructed as herein described, whereby the mouth-piece serves as a support for B and C,

substantially in the manner and for the purpose as herein set forth.

Second, the combination of the cutter lever E, bolt h, and wedge o, when constructed and operating substantially in the manner and for the purpose herein described.

No. 36,317.—JACOB WISTAR, of Greencastle, Pa.—Improvement in Flour Bolts.—Patent dated August 26, 1862.—Attached to the ribs of the bolt, and serving as braces to the same, are curved rods, upon which the balls or knockers are placed, and so arranged as to have no connexion with the shaft of the bolt, as is usual, but are caused to act directly upon the ribs.

Claim.—The use of the slide rods or braces D, extending from rib to rib, and carrying silding balls or knockers E, thus bracing the ribs, and at the same time bringing the action of the knockers chiefly upon the ribs and bolting cloth, substantially in the manner and for

the purposes set forth.

No. 36,318.—G. W. WOODWORTH, of Cleveland, Ohio.—Improvement in Water Elevators.— Patent dated August 26, 1862.—The spaces at the intersection of the forks of the wheel are dattened for the reception of the edge of the link. The points of the forks are connected by means of a bar or rod extending from the outer ends of one fork to the next, forming an entire circle on both sides of the wheel.

Claim.—The combination of the flat places A and inverted arch or section of a circle B with the bars forming the perimeter which connects the forks, as above described.

No. 36,319.—EDWIN BAILEY, of Baltimore, Md., assignor to Himself and HENRY McSHANE, of the same place.—Improvement in Cut-Offs for Hydrants.—Patent dated August 26, 1862.—This invention consists in combining with a plug case, having a series of openings through it for the water to pass through, a cut-off on the valve or plug stem, that gradually, by the recoil of the valve spring, closes the said openings, thus gradually cutting off the flow of water without jar or sudden stoppage, and avoiding the breaking or bursting of the water pipes.

Claim.—The combination of the spring cut-off d with the series of openings or perforations s. for the purpose of gradually shutting off the through flow of water, to prevent jarring and breaking of pipes, substantially as described.

No. 36,320.—R. H. CUNNINGHAM, of Schaghticoke, N. Y., assignor to W. P. Bliss, of the same place.—Improvement in Cylinders for Polishing Gunpowder.—Patent dated August 25, 1862.—This invention consists in the employment of a valve, made of leather, secured to a block of wood or other rigid material in such a manner that the leather will conform to the curve of the cylinder, and so that it can be tightly closed by passing a wedge through a staple projecting from the rear of the valve. Upon the valve is fastened a stationary strip of wood, which is let into the inner surface of the cylinder, where it is held by means of screws, so that the leather constituting the valve will be drawn up against the inner surface of the cylinder, thereby rendering it as even as possible; the object being to produce a perfectly polished powder, which will not be cut or bruised.

Claim.—First, the arrangement and combination of the piece of leather b with the bird of wood or metal c and strip d, each being shaped to correspond to the inner surface of metal control of the inner surface of metal control of the inner surface of metal control of the inner surface of metal control of the inner surface of metal control of the inner surface of metal control of the piece of leather b with the birds of the piece of leather b with the birds of the piece of leather b with the birds of the piece of leather b with the birds of the piece of leather b with the birds of the piece of leather b with the birds of the piece of leather b with the birds of the piece of leather b with the birds of the piece of leather b with the birds of the piece of leather b with the birds of the piece of leather b with the birds of the piece of leather b with the birds of the piece of leather b with the birds of the piece of leather b with the birds of the piece of leather b with the birds of the piece of leather b with the birds of the piece of leather b with the birds of the piece of leather b with the birds of the piece of leather b with the birds of th

cylinder, substantially as and for the purpose described.

Second, the arrangement of the stationary strip d, let into the inner surface of the cylader, in combination with the valve B, as and for the purpose shown and specified.

No. 36,321.—Samuel Mason, of Northfield, Conn., assignor to the Northfield Kver Company.—Improvement in Pocket Knives.—Patent dated August 26, 1862.—This inventor is explained by the claim.

Claim.—A pocket knife having a handle of malleable cast iron with a rough or corregue!

exterior, in imitation of buckhorn, as herein set forth.

No. 36,322.—WILLIAM PETERS, of Baltimore, Md., assignor to Himself and ALFED BUCK, of the same place.—Improvement in Covering Steam Boilers.—Patent dated Augge 26, 1862.—This invention consists in covering steam boilers, pipes, cylinders, &c., w 2 sheets or slabs made of a combination of asbestos and hemp, or some vegetable or annel fibre or material, or with mineral substances.

Claim.—Covering steam boilers, pipes, cylinders, &c., with the sheets, plates, &c., of 2-

composition herein named.

No. 36,323.—C. D. SPEARS, of Lisbon, Maine, assignor to Himself and F. BUCKWIL of Bowdoinham, Maine.—Improvement in Water Wheels.—Patent dated August 26, 1842—Within a quadrilateral box or case which constitutes the penstock is placed a "set formed of three segmental parts placed eccentrically with each other so as to leave inducted openings between them at their contiguous ends. Within this scroll, and attached to the upright shaft, is a wheel which is composed of arms of such a length that the ends of the segments of the scroll as the wheel rotate.

Claim.—First, the penstock A and the scroll B, the latter being placed within the tental and constructed of segments b, arranged eccentrically with the wheel C, as shown in contraction with the wheel C and central discharge opening f, all arranged as and for the purpose

set forth.

Second, the buckets e attached to the arms d of the wheel C, in an oblique position we shown and described, when said wheel thus constructed is used in combination with the scroll B, penstock A, and central discharge opening f, as herein specified.

No. 36,324.—J. M. STIVEN, of New York, N. Y., assignor to Himself, M. TUOMEY. Ed JOHN ELDER, Jr., of the same place.—Improved Boiler Feeders.—Patent dated August 3. 1862.—This invention consists in the employment of a float, forming a valve in combination with a pipe attached to the upper side of the cylinder in which the float is placed, and passing through the float. The lower end of this pipe forms a seat for the float valve, and the ward will descend through the pipe until the proper quantity is in the boiler, when the float valve and t

Claim.—The float f, provided with the pipe g, in combination with the supply pipe card valve i, the parts being fitted and acting in the manner and for the purposes specified.

No. 36,325.—E. A. TURPIN, of New York, N. Y.—Improvement in Breech-Loading Ordinance.—Patent dated August 26, 1862.—The construction of this implement is explained to the claim. The breech-plug is fitted in the breech of the gun, so that it may be turned out is it is inserted and grind out any refuse left on its seat, and thus secure a close slaptated of the breech-plug to the seat.

Claim.—Closing the breech of a piece of ordnance or other form of fire-arm by means of an axial plug, having a smooth cylindrical surface, and a conical end fitting a corresponding seat in the breech of the gun, the said plug being adapted to be turned upon its sate bled firmly in contact therewith by means of a tapering key or wedge C, passing transvice, through the breech and plug, all as herein shown and described for the purposes set forth.

No. 36,326.—ISAAC WINSLOW, of Philadelphia, Pa., assignor to J. W. JONES, of Parallel Maine.—Improvement in Preserving Vegetables in Hermetically Scaled Cans.—Parallel August 26, 1862.—This invention is explained by the claim.

Claim.—Preventing the bursting of hermetically sealed cans or other vessels, while the are exposed to heats for cooking or preserving their contents, by means of puncturing scans or vessels when first heated, or otherwise giving vent to the contained ar soon will heating, the easts or vessels being thereafter immediately resealed and the heat continued substantially in the manner and for the purposes set forth.

No. 36,327.—STUART PERRY, of Newport, N. Y., assignor to C. H. A. CARTER of New York, N. Y.—Improvement in Circuit Horse-powers.—Patent dated August 26, 1862.—11.5

in the employment of what are called "idlers," which, without creating power, are caused to transmit without friction the power exerted by the friction wheels, in combination with the power transmitting rollers or wheels of a horse-power, so that there shall be the least possible amount of pressure or strain upon the journals of said wheels as compared with the traction between them. The pressure between the rolling contact surfaces is regulated by means of a disk of rubber placed upon a vertical rod, in connexion with a nut upon the upper end of the rod.

Claim.—The combination of friction wheels and idlers, substantially in the manner and

for the purpose herein described.

Also, in combination with the friction wheels and idlers, the elastic pad f and nut e, for regulating the pressure between the rolling contact surfaces, substantially as and for the purpose set forth.

No. 36,328.—John Agate, of Cuba, N. Y.—Improved Machine for Holding and Filling Bags.—Patent dated September 2, 1862.—This apparatus is composed of a feeding hopper mounted upon legs, the bottom of the hopper being provided with a slide or cut-off and hooks, to which the bags to be filled are attached.

Claim.—The bag holder and filler, constructed and arranged substantially in the manner

specified.

No. 36,329.—Francis Alger, of Boston, Mass.—Improvement in Fuzes for Explosive Shells.—Patent dated September 2, 1862.—This invention consists in so arranging a time fuze that it will be displaced when the fuze strikes, and allow free ingress into the fuze case for the powder from the shell, or free egress for the flames from the time fuze.

Claim.—First, the construction and arrangement of a sliding time fuze within the fuze case, so that the shell will be exploded by striking, substantially in the manner described.

Second, the elastic packing ring A, applied and operating substantially as described. Third, the washer g, applied and operating substantially as described. Fourth, the arrangement of a hammer, fulminate and time fuze, substantially in the man ner and for the purposes specified.

No. 36,330.—W. H. BABCOCK, of Homer, N. Y.—Improvement in Water leEvators.—Patent dated September 2, 1862.—This device is composed of a casting adapted to fit loosely upon a pin or projection fixed in the hand-crank in connexion with a bent lever, ratchet teeth, and a coiled spring, so as to enable the bucket to be easily and securely elevated or

lowered by a rotary or reciprocating motion of the crank.

Claim.—The arrangement of the spring K, projection J, piece UV, and pawl E e, for operation with the loose crank and ratchet wheel and frictional surface P, substantially in

the manner herein set forth.

No. 36,331.—A. C. BAKER and JOHN VAN DYNE, of Hyde Park, N. Y .-- Improvement in Car Coupling .- Patent dated September 2, 1862.-Within the draw-head of the car are arranged two yielding jaws held in position by means of springs. Attached to the jaws are transverse bars which, by means of the springs, are held in contact with levers upon a shaft fitted horizontally in the draw-head between the jaws. The ends of the shaft extend through the side of the draw-head, and have each an arm attached to them extending upward and connected by a cross-bar, so that by pressing the latter with the foot, the brakeman is enabled to disconnect the cars, the act of coupling being automatic.

Claim.—The yielding jaws B B, with the transverse bars D D attached, in combination with the shackle J and levers E E, the latter being placed on the shaft F, which is provided with the arms G G, connected by the cross-bar H; the above parts being used with or without the guides I I, and fitted in or applied to the draw-head A, as and for the purpose set forth.

forth,

No. 36,332.—J. F. BAKER, of West Yarmouth, Mass.—Improvement in Invalid Bedsteads.— Patent dated September 2, 1862.—This invention consists in the employment of two rollers hing in bearings secured to the posts of the bed. One end of each reller is provided with a pawl, which engages with a corresponding ratchet, and to each roller is secured a sheet, so that by turning the rollers, the changing position of the sheet will enable the patient to be turned over in bod.

Claim.—The arrangement of the rollers C C', sheet I, ratchets D and D', and the interchangeable bearings b'b', operating together, substantially in the manner and for the purpose

Lerein described.

Second, The double pawls F f, so arranged as to be self-supporting, substantially as and 🚾 the numera herein set forth.

No. 36,333.—A. W. BRINKERHOFF, of Upper Sandusky, Ohio.—Improved Device for Husting Corn.—Patent dated September 2, 1862.—This device is formed of a single piece of metal, curved so as to fit within the palm of the hand when closed, and over the forefinger and back of the hand, and provided with a hooked projection to operate upon an ear of corn to remove the kernels. Digitized by GOOGIC Claim.—The herein described corn husker, composed of a clasp H and a hooking tooth B, whether formed entire of one piece of metal or by combining the hooking tooth with a metallic, leather or other clasp or band, by any of the common modes of attachment, such as riveting and soldering, as and for the purposes set forth.

No. 36,334.—A. W. BRINKERHOFF and A. T. BARNES, of Upper Sandusky, Ohio.—Isprovement in Fruit Gatherers.—Patent dated September 2, 1862.—This device is compact of two jaws, the upper one of which is provided at its edge with a blade and a stop for preventing the lower part from passing too far within the upper one. The lower jaw is increased by a spring, and is operated by means of wires extending down to the handle its fruit being conveyed to the ground through a flexible conducting tube.

Claim .- First, in fruit gatherers the use of the metallic cap or upper jaw C, with blade B

and stop S, substantially as and for the purposes described.

Second, in combination with the cap or upper jaw C, blade B and stop S, we claim is arrangement of handle H, lower jaw A, adjustable, actuating wires W and conductor P. substantially as and for the purposes set forth.

No. 36,335.—A. W. BRINKERHOFF, of Upper Sandusky, Ohio.—Improvement is Cor-Planters.—Patent dated September 2, 1862.—The nature and object of this invention will a understood by the claim.

Claim,—First, so constructing the main framework of corn-planting machines as that a additional framework, combining the seeding devices, shoes, attendant's seat, and elevinities lever, may be placed and carried thereon, substantially as described, and for the purpose of

forth.

Second, so combining with the main framework of corn-planting machines an additional framework containing the seeding devices, shoes, and attendant's seat—all of which are is ward of the centre of the wheels or ground supports—the whole supported and carried on main framework, and so that the said additional or upper framework may be either added removed to or from the main framework without in the least degree disarranging any of the parts, substantially as and for the purposes set forth.

Third, so constructing corn-planting machines as that the shoes or furrow openers that all times when relieved of the weight of the attendant, and without manipulation, be raised above the ground by the weighted lever m, and there carried, as and for the purposes set for

above the ground by the weighted lever m, and there carried, as and for the purposes set in Fourth, so constructing corn-planting machines as that the weight of the attendant who operates the seeding mechanism is necessary to and will force the additional framework. which the shoes are attached, down upon the main framework, thereby causing them to protect the earth to a certain and uniform depth at all times, producing uniformity in the original planting, which may be varied as desired by notched slide h, as set forth.

Fifth, so constructing corn-planting machines as that the attendant or person who opened the seeding mechanism may, by placing his feet upon the lower or main framework. It gradually rising, relieve the additional or upper framework of his weight, thereby allowed the shoes to rise above the ground for the purpose of turning at the ends of the fields are passing over intervening obstacles without the assistance of a second attendant, or the measure of dismounting, as set forth.

Sixth, in combination with corn-planting machines, supported mainly upon not less than two wheels and slightly upon the horses' necks, and with its seeding devices forward of the corn of the wheels, and which are elevated automatically, a hinged or yielding joint in the real of

all points of support, as described and for the purposes set forth.

Seventh, in seed-planting machines the automatic elevation of the shoes or furrow exercises above the ground, for the purpose of passing intervening obstacles, turning around, and the purpose of passing intervening obstacles, turning around, and the purpose of passing intervening obstacles, turning around, and the purpose of passing intervening obstacles, turning around, and the purpose of passing intervening obstacles, turning around, and the purpose of passing intervening obstacles, turning around, and the purpose of passing intervening obstacles, turning around, and the purpose of passing intervening obstacles, turning around, and the purpose of passing intervening obstacles, turning around, and the purpose of passing intervening obstacles, turning around, and the purpose of passing intervening obstacles, turning around, and the purpose of passing intervening obstacles, turning around, and the purpose of passing intervening obstacles, turning around, and the purpose of passing intervening obstacles, turning around, and the purpose of passing intervening obstacles, turning around, and the purpose of passing intervening obstacles, turning around, and the purpose of passing intervening obstacles, turning around, and the purpose of passing intervening obstacles, turning around the purpose of passing intervening obstacles, turning around the purpose of passing intervening obstacles, turning around the purpose of the purpose

porting the machine from place to place, as set forth.

Eighth, in combination with a corn-planting machine, wherein that portion of the framework containing the seeding devices is elevated automatically, and having its seeding devices forward of the centre of the wheels, so connecting the parts between the main and additional framework as that by simply removing the bolts at cc, figs. 1 and 4, the additional marker work may be removed, having the main framework perfect for marking the ground preparatory to planting, as set forth.

Ninth, the weighted lever m, or its equivalent, in combination with the additional frame

work, as and for the purposes set forth.

Tenth, the weight K, on lever m, adjustable when used in combination with seed-plant machines, for the purpose of accommodating it to the amount of seed in the boxes, and vary weights of attendants, as set forth.

Eleventh, in combination with corn-planting machines, the metallic plates T T, construct as described, forming a receptacle for the neck of shoe S', the bearing for the shaft of crimes

4, and a ready and firm attachment for seed boxes 30 30, as set forth

Twelfth, in combination with corn-planting machines, the hounds ff, when constructed described, thereby saving all necessity for wood and bolts in their manufacture.

Thirteenth, the combination and arrangement of cylinder 4, with metallic base 6 6 and metallic cap 3 3, elastic cut-off 10 10, and dish or hopper 21, as and for the purposes set with Fourteenth, providing the face of cylinders of seed-planters with oblique grooves, in combination with seed calls, substantially as described and for the purposes set forth.

Fifteenth, the formation, by seed-planting machines, of the double furrows w w, fig. 10, with the continuous scatterer z between them, as described, and for the purposes set forth.

Sixteenth, the inverted v-shaped opening in the lower front part of the shoe S', or its equivalent, for the purpose of forming the double furrows and continuous scatterer, and to prevent the shoes from becoming clogged, as set forth.

No. 36,336.—A. W. BRINKERHOFF and A. J. FAILOR, of Upper Sandusky, Ohio.—Improvement in Field Rollers.—Patent dated September 2, 1862.—This invention is explained

by the claim.

Claim.—Applying directly to the centres of field rollers, as near as we possibly can, a single projection cast in sections, but forming one continuous marker when applied to the roller, and attached or held in place by screws or bolts, whereby they may be easily applied to the roller for marking corn ground and as easily removed therefrom, leaving the roller in proper form for use on meadows, or for preparing other ground when smooth surface is desired, substantially as and for the purpose set forth.

No. 36,337.—C. M. BROMWICH, of South Boston, Mass.—For Draught Attachment for Lamp Boxes.—Patent dated September 2, 1862.—This invention is designed more especially to be used with coal-bil lamps, and consists in attaching to the box which contains the lamp an additional box having a central chamber, and provided at its upper and lower parts with apertures for the admission and escape of air, in connexion with an inverted box or deflector suspended from the upper part, for the purpose of furnishing a steady and uniform supply of air to the flame and preventing it from flickering.

Claim.—The box B, provided with an elevated chamber C, in combination with a box D

Claim.—The box B, provided with an elevated chamber C, in combination with a box D perforated at its upper and lower part as shown at dc, and having a suspended box or deflector E within it, all arranged as shown, and used with or without the box A, as and for

the purpose herein set forth.

No. 36,338.—HIRAM BURLEW, of Lock Haven, Pa.—Improved Composition for Concrete Parements.—Patent dated September 2, 1862.—The ingredients used in this composition are gravel or broken stone, coarse sand, coal ashes and cinders, calcined plaster, and pine tar.

Claim.—The employment or use of a composition for paving made of the ingredients herein

specified, and mixed together in the manner and in about the proportion described.

No. 36, 339.—G. F. J. Colburn, of Newark, N. J.—Improvement in Applying Reflectors to Lamps.—Patent dated September 2, 1862.—This invention consists in the application of a reflector to the upper part of a lamp by means of a wire frame so that it can be readily turned upon the lamp, the reflector being pivoted so as to enable it to be turned at any desired angle with the flame of the lamp.

Claim.—The mode herein described of applying reflectors to lamps, for the purpose specified.

No. 36,340.—A. O. CRANE, of Hoboken, N. J.—Improvement in Submarine Carriages.—Patent dated September 2, 1862.—This invention consists in constructing the carriage with a joint or hinge in such a manner that it may be moved along on the bed of the river a greater or less distance beyond the lower end of the ways, so as to enable vessels to be floated over and upon the carriage and touch at a point near the upper end of the latter, by which means vessels of a greater draught than usual may be hauled up in shallow places.

Claim.—A carriage or cradle for submarine railways, constructed of two or more parts,

connected by hinges or joints, to operate as and for the purposes herein set forth.

No. 36,341.—JOSEPH DEFOSSEZ, of Paris, France.—Improvement in Sefety Lamps.—Patent dated September 2, 1862.—This invention relates to that class of lamps known as Davy's safety lamps, and it consists in the application to the cover of the lamp of a pneumatic locking device in such a manner that neither the cover nor the wire gauze protection can be removed until, by the application of an air pump or by other suitable means, the bolt of the locking device is withdrawn.

Claim.—The pneumatic locking device m = o, in combination with the oil reservoir A, top plate F, and chimney D, all constructed and operating substantially in the manner and for

the purpose herein shown and described.

No. 36,342.—John Du Bois, of Williamsport, Pa.—Improvement in Dams.—Patent dated September 2, 1262.—This invention consists in constructing a shoot for passing boats, logs, raits, &c., through a dam in such a manner that the available working depth of water within the shoot shall remain the same, notwithstanding the depth of the water above the dam may vary and draw down during the passage of boats, &c., and by means of which the same are passed from a point above to a point below the dam, without being subjected to a perpendicular fall of water between the two points during their passage.

ular fall of water between the two points during their passage.

Claim.—First, in a dam shoot, which is operated by hydrostatic pressure beneath an apron,
a divided apron having its parts hinged at the point of junction, substantially as and for the

purpose described.

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Second, in a dam shoot having a divided apron, a fixed articulating joint at one extremity of the apron, in combination with a sliding joint at the opposite extremity of the apron, for

the purpose set forth.

Third, a dam shoot having an apron made in sections H H', hinged together at their june tion as at i, the lower section H', articulating upon a fixed hinge, and the upper end of the section H, travelling in a horizontal slot at the bottom of the flume, the whole being operated substantially in the manner and for the purpose described.

No. 36,343.—J. B. EASLAND, of Bridgeport, Conn.—Improvement in Settees for Railred Passenger Cars.—Patent dated September 2, 1862.—In this device the seat and back are suspended upon the same pivots, and upon the ends of the seat and corresponding part of the frame are a series of projections so arranged that by raising the seat and moving it forward it will assume an inclined position to which the back will consequently conform, the degree of inclination being changed as desired.

Claim.—Suspending the seat thereof from the same pivots upon which the back swings, and so connecting the arms of the seat and back with each other that any desired inclination may be given to the former by the mere raising and lowering of the latter, substantially as

described.

No. 36, 344.—B. W. FAY, of Boston, Mass.—Improvement in Secents for Hats.—Patent dated September 2, 1862.—This invention consists in first running an ornamental seam in the sweet band at a short distance from one edge, when it is sewed to the hat by stitches just below the ornamental seam; the sweat band is then turned down into the hat and covers the sticked

Claim.—The sweat herein described, prepared with an ornamental seam g g, and secured

to the hat in the manner substantially as set forth.

No. 36,345.—WILLIAM GRANGE, of Augusta, Ky.—Improvement in Harrows.—Patent dated September 2, 1862.—This device is constructed of two concentric rings, to the outer one of which is secured a number of short blocks provided with harrow teeth. This part is conof which is secured a number of short blocks provided with harrow teeth. nected to a central rotating hub by means of curved arms, each of which branches into two arms, and each of the latter being attached to one of the toothed blocks. The inner ring is secured by radial arms provided with teeth to a hub rotating on the same central stem or shaft. Upon each ring rests a roller attached by an arm to the shaft at opposite sides of the machine, which causes the teeth upon one side of each ring to enter more deeply into the ground than on the opposite side, and thus, as the machine is drawn over the ground, the rings and teeth are caused to move concentrically and simultaneously in opposite directions.

Claim.—The peculiar arrangement of the arms c and c', outer rotating frame A', and roller E, in connexion with the inner rotating frame B' and roller F, the two rotating frames being carried by and rotating concentrically in opposite directions upon the same central stem C, as

set forth.

No. 36,346.—WILLIAM GREGG, of Philadelphia, Pa.—Improved Refrigerator.—Patent dated September 2, 1862.—This invention consists in placing the ice box in the centre of the bottom of the refrigerator so that its lower end shall project a short distance through the same and serve as a cover to a water cooler placed underneath the refrigerator.

Clasm.—Combining a water cooler with a refrigerator so that the latter, in connexion with its ice box, shall form the cover of the water cooler, the whole being arranged together so as

to operate in the manner described for the purposes specified.

No. 36,347 .- T. F. GRIFFITHS, of Dansville, N. Y .- Improved Holdbacks for Carriages -Patent dated September 2, 1862.—This device consists of a clasp which is secured to the upper part of the thill, and provided with a slot or mortise to receive one end of a hook. On each side of the mortise is a raised ear recessed to receive lugs or projections on each side of the hook. The hook is pivoted eccentrically so that by sliding it into the recesses and turning it down it will be securely held in place, the holdback strap being secured in a slot in the outer end of the hook. In case the whiffletree breaks, or the lugs be broken or unhitched, the hook will itself leave the clasp and release the horse from the vehicle.

Claim.—The employment or use of the clasp C and the hook B, they being constructed substantially in the manner specified, and operating conjointly for the purposes set forth.

No. 36,348.—WILLIAM CROVER, of Holyoke, Mass.—Improved Gas Regulator.—Patent dated September 2, 1862.—This invention consists in combining the inlet and outlet chambers of a gas regulator by means of an oscillating siphon-shaped pipe so applied as to form a means of communication through which the gas passes from one chamber to another, and so combined with an inverted cup and with basins of mercury as to constitute the regulating valve. The fulcra of the oscillating pipe consist of two fixed knife-edged bearings arranged within a mercury cup so as to secure at all times a free movement of the pipe.

Claim.—The combination with the oscillating pipe D and its fulcrums jj of the inverted cup E and its arms k k, in the manner herein shown and described.

Also, the arrangement of the fulcrums jj within the mercury cup h, as herein shown and described. Digitized by GOOGIC

No. 36,349.—JASPER HAZEN, of Albany, N. Y.—Improvement in Beckiess.—Patent dated September 2, 1862.—This invention consists in the arrangement of a central apartment for the swarm covered with a glass and divided at the centre, with boxes at the top and sides, the upper boxes being supported by bars, which also form guides for the comb, by which means a free communication is formed between the upper boxes and principal apartment, so that the swarm will commence work in the hive and boxes at the same time, and the earlymade honey be secured for use.

Claim.—The combination of the parts A A, boxes B B B and C C, adjustable bottom board

D, and bars G G, in one hive, as specified.

No. 36,350.—J. M. HENDRICKS, of Philadelphia, Pa.—Improvement in Hulling Machines.—Patent dated September 2, 1862.—This invention consists in the employment of two toothed hulling plates, one having a rotary motion, the other being stationary and provided with an elastic or yielding back, the rotary plate being so arranged as to be capable of being adjusted to regulate the pressure of the plates on the coffee, cotton seed, or grain, and using in connexion with the said hulling plates a fan and reciprocating screen within a case placed below the plates. Below the screen box is arranged a rotating toothed shaft of double taper form for the purpose of polishing the grain which passes from thence into a circular screen surrounded by a similar screen of larger diameter and of less length, so that the discharge opening of each shall be separate.

Claim.—First, the two plates D D', provided with teeth, as shown, one D' being arranged to rotate on an adjustable shaft E, and the other D fitted permanently in the case C, with an elastic or yielding substance, formed of India-rubber or cork, interposed between it and the side or plate a of the case, as and for the purpose specified.

Second, in combination with the plates D D', the blast fan N, and reciprocating screen O, placed within the box or case M, and arranged in relation with the plates D D' to operate as and for the purpose herein set forth.

Third, the polisher or scourer formed by the rotating toothed shaft O' placed within the box N', in combination with the screen O, blast fan N, and plates D D', arranged as and for

the purpose specified.

Fourth, the rotating screens Q T, placed one within the other in the case R, in combination with the polisher O', reciprocating screen O, blast fan N, hulling plates D D', the latter being placed within the case C, and the plate D', provided with the conical flanched feeder F projecting within the hopper B, and all arranged to operate as and for the purpose specified.

No. 36,351.—JOSEPH HOLLEN, of Fostoria, Pa.—Improvement in Knitting Machines.—Patent dated September 2, 1862.—This invention consists in the construction and arrangement of devices for lifting the stitches off-of hooked needles, and giving the required periodical motions to the needle cylinder. Against the inner end of the cam cylinder is permanently fixed a plate which carries three levers, each of which turns freely and independently of the others, and is provided with a pointed end adapted to enter and move along in grooves in the needles, underrun the stitches thereon, lift them over their hooked ends, then drop them, as the cam cylinder is rotated. The cam cylinder has also a series of appropriate cams thereon, which successively move a forked plate to the left and right, and also downward against the lifting tendency of a spring N, so as to drive the needle cylinder around by two distinct motions for every stitch lifted off the needles.

Claim.—First, the stitch-lifting levers H H H arranged around the end of the cam cylinder g. so as to operate in combination with the needles C and presser E, substantially in the man-

her described for the purpose specified.

Second, giving to the needle cylinder B the periodical motions described, by means of the forked plate M, or its equivalent, operated by the cam cylinder g and spring N, substantially in the manner described for the purposes specified.

No. 36,352.—ALEXANDER IRWIN, of Pittsburg, Pa.—Improvement in Engines for City Reilroads.—Patent dated September 2, 1862.—Suspended in a frame beneath the car bed are two oscillating engines, above each of which is a water tank placed underneath the seats of the car and divided into a number of compartments, through which pass valve rods provided with valves on each side of the partitions, the object being to prevent the accumulation of the water and consequent weight at one end when upon an inclined grade, and to insure a uniform supply to the boilers at the opposite end of the car bed.

To the inner ends of the tanks are attached inclined pendant tubes, extending down in front of the driving wheels and provided at their lower ends with perforated cross-pipes, for the purpose of supplying water to the treads of the wheels to facilitate their passage over curves.

Claim.—First, the oscillating engines F F in a frame E suspended underneath the car bed A, as shown, in combination with the heater K, tanks H H, and boilers G G, all arranged

and disposed in relation with the car bed A to operate as and for the purpose herein set forth. Second, constructing the tanks H with a series of compartments, in connexion with the

valves J and rods I arranged therein, as shown, for the purpose specified.

Third, the sprinklers or jet discharges formed of the tubes L with perforated pipes m at their lower ends, when said tubes are connected and arranged with the tanks H and the wheels B, for the purpose herein set forth. Digitized by Google

No. 36,353 .- I. R. LAWRENCE, of Green Island, N. Y .- Improvement in Endless-Cheir Horse-Powers.—Patent dated September 2, 1862.—This invention consists in the application of a semicircular outside guide for the endless chain at the end of the machine, the latter being so constructed that a link or roller can be taken from and replaced in the endless chan at either end by removing the semicircular guide, without the necessity of removing the guard rails or the horse from the machine, in case such link or roller should become broken or otherwise defective.

The axles which carry the rollers are made of taper form, and are cast on the links with their central lines parallel to the plane of the track, but inclined forward toward their line of

motion, se as to prevent their tendency to bind against the track rails.

Claim. -The movable half circle or outside guide or guides G for the endless chain at the end of the machine, the machine being so constructed, substantially as herein described that a lag B, link C, or roller D can be taken from and replaced in the endless chain at the circular end of the machine on removing the said half circle or outer guide or guides G, without taking either the guard rail or guard rails I or the horse or horses from the machine.

Also, the inclined tapered axles L cast on links C, combined together and with the rollen

D, lags B, and tracks E F, substantially as herein described.

Also, the inclined tapered pivots N and corresponding sockets P cast in and upon links C combined together and with lags B, rollers D, and supporting rail E F, substantially as been described.

No. 36,354.—A. S. LYMAN, of New York, N. Y.—Improved Apparatus for Concentrating Milk.—Patent dated September 2, 1862.—This apparatus consists of a series of disks rotting in a continuous trough arranged within a passage, through which there is a circulation of si, the object being to expose the milk for evaporation by distributing it over a large surfacen contact with a large amount of fresh air, and at the same time to break up or prevent the formation of a pellicle.

Claim.—The combination of the rotating disks g g, the continuous pan B, and the air pa-

sage c, substantially as and for the purpose herein specified.

No. 36,355.—ALEXANDER MOFFITT, of Brownsville, Pa.—Improvement in Hubs for Ve hicles.—Patent dated September 2, 1862.—This invention consists in the arrangement mi combination of the several devices named in the claim, by means of which the ends of the spokes are firmly secured, and the latter, when broken or injured, can be readily replaced without the aid of an artisan.

Claim.—First, the box s, in combination with the part b and parts c d e, with their appearages or flanges, substantially as described.

Second, the pins p and q, with their fastening screws p' and q', in combination with the holes in the lips of the cup-shaped flanges d' and f', as described.

Third, the screw nut d and flange d' for tightening the disk c and flange c' upon the ends

of the spokes.

Fourth, the screw-nut f, with its flange f' and imperforate diaphragm A, constructed in the

manner and for the purposes specified.

Fifth, the semi-elliptical or semi-oval mortise c' and c', constructed in the manner and for the purposes set forth.

No. 36,356.—PROSPER MONNET, of Lyons, France.—Improvement in producing Anilise Colors.—Patent dated September 2, 1862.—This invention consists in treating salts of sailing or toluidine, such as the hydrochlorate of these substances, with nitro-bensine at a boiling temperature, and separating the red and blue colors by washing with pure water.

Cleim.—The within-described process of treating the hydrochlorates or other salts of aniline

or toluidine with nitro-benzine, substantially in the manner and for the purposes specified

No. 36,357.—Prosper Monnet, of Lyons, France.—Improvement in the Manufacture of Aniline Colors.—Patent dated September 2, 1862.—This invention consists in treating the red of aniline with methylene or wood spirit, and afterwards with nitric acid, until the color has changed from the red to a violet blue.

Claim.—The within described process of treating the red of aniline with methylene or wood

spirit and nitric acid, substantially in the manner and for the purpose set forth.

No. 36,358.—James Nichols, of Limestone, N. Y.—Improvement in Magazine Fire arms.—Patent dated September 2, 1862.—This invention consists mainly in certain means applied to a fire-arm in combination with a many chambered cylinder, for the purpose of permitting and effecting the loading of the chamber with loose powder and bullets or shot free magazines attached to the barrel or fere stock of the arm in front of the cylinder.

Claim.—First, the powder charger Q, applied in combination with the rotating cylinder C and a magazine P, substantially as herein specified.

Second, the bullet-feeding machanism, consisting of the plunger S, double ratchet red S, slide T, dog T, link 14 and lever U, the whole combined and applied to the fire-arm in combination with the recursion B. to extract substantially a short size of the second substantially as the second substantially as the second substantially as the second substantially as the second substantially as the second substantially as the second substantially as the second substantial substa bination with the magazine R, to eperate substantially as herein specified.

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Third, the frame A B attached rigidly to the stock and the frame E F G H attached to the barrel, fitted together and combined by means of a yoke G and cam I, applied and operated substantially as herein described, to produce a longitudinal movement of the barrel or stock, the one relatively to the other.

Fourth, combining the cylinder with the recoil shield by means of the zig-zag groove h h i i in the cylinder and the pin j in the recoil shield, such groove and pin serving both to stop the cylinder in its revolution, and to detach the cylinder from the barrel in the longitudinal move-

ment of the latter, substantially as herein specified.

Fifth, the elbow lever N carrying the revolving dog n, and the cam I, applied in combination with each other and with the cam L, by which the longitudinal movement of the barrel is produced, substantially as and for the purpose herein specified.

No. 36,359.—ROBERT PORTER, of Philadelphia, Pa.—Improved Sheet Metal Cans for Oils, Varnish, &c.—Patent dated September 2, 1862.—This invention consists in placing the cork tube in or near the centre of the top plate and indenting the plate with narrow radial grooves, so as to slightly depress the same from the periphery to the centre of the top plate for the purpose of conducting the oil or other liquid to the orifice or cork tube.

Claim.—Providing a sheet-metal can with drain grooves d d in its top plate A, the said grooves leading directly from the periphery of the latter to its cork tube B, and the said plate being slightly raised toward its said tube, substantially as described and set forth and for the

purposes specified.

No. 36,360.—J. C. OSGOOD, of Troy, N. Y.—Improvement in Submarine Excavators.—Patent dated September 2, 1862.—The nature and object of this invention will be understood from the claim.

Claim.—First, an endless bucket or elevator dredging machine, which is arranged to swing wholly upon a crane and operated thereupon, and is capable of being raised and lowered upon

said crane, substantially as and for the purposes set forth.

Second, the combination with adjustable inclined ways D, and the frame of the crane B

of the device σ y, or equivalent, substantially as and for the purposes set forth.

Third, so combining the bevel wheels M N and main upright of the crane with the shaft and pinion L, through which the power is transmitted from the engine to the machinery in the crane, that said crane may be made to articulate in any desired direction without affecting or varying the working relation of said bevel wheels with the said shaft and pinion, substantially as described.

Fourth, the construction and arrangement of the crane, substantially as specified, so that the endless chain of buckets or elevators shall stand and discharge at a point higher than any

other part of the apparatus, for the purpose set forth.

Fifth, in combination with the endless chain of buckets the manner of hanging the shute or trough so that it will adjust itself by means of the bolt under the hopper and the small crane H, substantially as herein set forth.

Sixth, the manner of constructing the hopper with the reversing bottom in combination with

the shute or trough, for the purpose set forth.

No. 36, 361.—A. T. PECK, of Scott, N. Y.—Improvement in Butter Tubs.—Patent dated September 2, 1862.—This invention consists in constructing a wooden butter tub or firkin with a lining of mica.

Cleim.—As an improved article of manufacture, a butter tub, firkin, or box, constructed of

wood, and having a lining of mica, substantially as described.

No. 36, 362 .- N. W. PEEBLES, of Brunswick, Ohio .- Improved Clothes-Wringing Machine.—Patent dated September 2, 1862.—This invention consists in the employment of a single reversely curved metallic spring, extending across the machine and secured at its centre to the upper cross-piece, with its ends bearing immediately upon the journals of the pressure rollers.

Claim.—The single spring S, acting directly on the journals of the pressure roller B, constructed and arranged in combination with the frame A and pressure roller B, substantially as and for the purpose herein specified.

No. 36, 363.—DAVID and JOHN PROUTS, of Holmes County, Ohio.—Improved Pricking Martingale for Preventing Horses and Mules from Throwing or Breaking Fences.—Patent dated September 2, 1862.—This invention consists in applying a series of sharp-pointed pieces of metal or nails to the inner side of a martingale strap, for the purpose of preventing a horse from breaking down fences while wearing the same.

Claim.—The combination of said pricking breast strap and the straps E E, which hold

the pricking breast strap to its place.

No. 36, 364.—John Oesterling, of Wheeling, Va.—Improvement in Snap Dragon.—Patent dated September 2, 1862.—This invention consists in providing the slide of the dragon with diagonal slits, by means of which the opening and closing of the jaws are regulated so

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as to permit the use of a very weak spring, such spring, through the light pressure it produces, preventing the glass from cracking, so that it may be readily placed in and taken out of the dragon without danger of breaking or bending the glass.

Claim. - The diagonal slits, as shown in figures 1, 4, 5, and 6, of the drawings, or the equiv-

alents of said slits.

No. 36, 365.—C. G. PUCKETT, of Cerro Gordo, Ind.—Improvement in Drain Values for Pumps.—Patent dated September 2, 1862.—Upon the side of the pump stock is arranged a case through which passes a screw rod provided at its lower end with a valve or stopper of suitable material, and combined with a pipe projecting from the lower part of the pump sock and communicating with the interior of the same in such a manner that by means of the screw rod, the pipe can be opened and closed at will, and that when the pipe is open the water remaining in the pump is permitted to coze out and thus prevented from freezing.

Claim.—The combination of the box f, screw valve rod c, valve b, and pipe a, with the pump

stock A, in the manner herein shown and described.

No. 36,366.—S. S. PUTMAN, of Dorchester, Mass.—Improved Curtain Fixture.—Putat dated September 2, 1862.—In a cavity at one end of the curtain roller is placed a pint provided with a shoulder which is caused by a coiled spring to press against the cap which carries the cord at the end of the roller, by which means sufficient friction is produced to held the curtain in any position. Near the outer end of the pivot are cut teeth which engage with pawl to prevent the pivot from turning when the curtain is being drawn down

Claim.—The loose pivot f held in place upon the curtain rod by means of the flange i and cap H, and controlled in its motions by the concealed spring g and pawl k, the pawler gaging directly with the pivot or with a tooth attached thereto, substantially as set forth.

No. 36, 367.—F. J. REBBECK and E. M. DAVIES, of Pittsburg, Pa.—Improvement in Lam Burners.—Patent dated September 2, 1862.—This invention consists in exposing the upper part of the wick tube of a coal-oil lamp burner either by moving the same vertically or moving a case which encompasses it, one or more openings being made in the latter, and the former provided with a perforated cylinder which, when the burner is in use, serves to close the openings in the external case which encloses the wick tube; the object being to enable the wick to be trimmed and lighted without the necessity of removing the glass chimney or detaching any of the parts of the burner.

Claim.—The wick tube D, provided with a hollow perforated cylinder I, and encompassed by a case K having one or more openings d made in it, and provided with a flanch L to receive the case or deflector M and draught chimney N, when said parts are arranged to admit of the vertical sliding of either the wick tube or case so as to expose the upper end of the wick

tube, when necessary, for the purpose of lighting or trimming the wick, and also to enclose fully the wick tube when the burner is in use, substantially as herein set forth.

No. 36, 368 .- Moses Reed, of St. Louis, Mo. - Improved Composition for Cleaning Painted Wood Work, Stone, &c .- Patent dated September 2, 1862.- The ingredients of which this composition consists are pulverized pumice stone, sal soda, and borax, to be used instead of soap, for the purpose of cleaning painted or stone work.

Claim.—The employment or use of a composition made of the ingredients above specified

mixed together in the manner and about in the proportions herein described.

No. 36, 369.—Benjamin Rice, of Hastings, N. Y.—Improvement in Attaching Thills to Axles.—Patent dated September 2, 1862.—This invention consists in the employment of an eye of oblong elliptical form made at the end of the thill-iron, and with a steel bearing thereon, and also a loose box having a spring bearing against it to compensate for wear; the same be ingused in connexion with a steel connecting pin and Babbett-metal bearing fitted in the yielding box, by which means rattling and unnecessary play of the coupling is avoided.

Claim.—The employment of the oblong eye B in combination with the steel head s, loss

box E, spring F, and pin C, in the manner herein shown and described.

No. 36, 370.—L. D. Roberts, of Cleveland, Ohio.—Improvement in Machines for Making Horseshoes.—Patent dated September 2, 1862.—For an understanding of this invention refer-

ence must be had to the specification and drawings.

Claim.—First, the combination of the eccentric C, mandrel D, the primary and secondary

Claim.—First, the combination of the eccentric C, mandrel D, the primary and secondary arms L L", when operating conjointly in the manner and for the purpose set forth.

Second, the cam lever N, rods o o, and spring M, in combination with the roller P and arms L L", in the manner and for the purpose specified.

Third, the arrangement of the cams F F', arms I and I', in combination with the bar H, arm J, and rock-shaft K, and arms L L", substantially as and for the purpose set forth. Fourth, the jaws U U, springs V V, gauges S S', and mandrel D on the eccentric C, when arranged to operate conjointly in the manner and for the purpose specified.

Fifth, the adjustable gauges S S' with the movable slide I and adjustable clamps n, operating conjointly with the mandrel D and jaws U U, as and for the purpose herein described. Sixth, the cam G, lever g and spring i, in combination with the shears or cutter T, opera-Sixth, the cam G, lever g and spring j, in combination with the shears or cutter T, oper-

ting in the manner and for the purpose set forth.

No. 36, 371.—J. W. SCHREIBER, of New York, N. Y.—Improvement in Coal-Oil Lanterns.—Patent dated September 2, 1862.—This invention consists in constructing the body of the lamp with an external rim or case of cylindrical form, and also with a polygonal or corrugated flanch of such diameter that it will fit within the external rim between it and the body of the lamp, and form circuitous air induction passages, through which the flame is supplied with air; the parts being used in connexion with a draught chimney encompassed at its upper part by a jacket, a space being left between it and the chimney to form a passage for the air and assist the draught of the chimney.

Claim.—The lamp A, provided with a cylindrical rim or case D, and a polygonal or corngated flanch F, in combination with the chimney and the shirt or jacket K, on or around the

upper part of the latter, all arranged as and for the purpose herein set forth.

No. 36, 372.—CHARLES SEYMOUR, of Laporte, Ind.—Improvement in Machines for Upsetting and Stretching Tires.—Patent dated September 2, 1862.—This machine is composed of a sliding bed plate resting upon a stout frame, upon the rear end of which bed projects a rack which meshes with a toothed sector secured to jaws on the frame, by which the sliding bed is Upon the sliding bed are placed eccentric wheels which hold the wheel tires, and midway between which is placed a stationary jaw having opposite to it a sliding or adjusta-ble jaw, which together serve to assist in stretching or staving up the tire. The frame is also provided with a punch stock, which, in connexion with suitable dies and a punch operated by neans of the toothed sector, serve to punch the holes in the tire.

Claim.—First, the frame B, sliding bed plate c, with its rack D, sector E, the stationary jaw J, and adjustable jaw K, when arranged to operate in combination with the eccentrics G G G

G, the said parts operating together in the manner and for the purpose set forth.

Second, in combination with frame B, sliding bed plate c, rack D, and sector E, the punch stock H, punch 1, die stand F, and die N, when the several parts are arranged in the manner and for the purpose specified.

No. 36,373.—Edward Shore, of Conshohocken, Pa. — Improvement in Knitting Machines.— Patent dated September 2, 1862.—This invention relates to an improvement in rotary knitting machines, and consists in driving the stripper wheel and, if desired, the loop wheel and landing wheel, by means of gearing from the main shaft of the machine, so that the circular row of knitting needles usually employed to turn the said wheels shall be relieved from that duty and from that undue strain which is liable to disarrange and, in many cases, break the needles. Claim.—Driving the stripper wheel of a rotary knitting machine and, if desired, the land-

ing and loop wheels, by means of gearing from the main shaft of the machine, substantially as

herein set forth and for the purpose specified.

No. 36,374.—A. J. SIMPSON and J. B. CURRIER, of Lowell, Mass.—Improvement in Lamp Burners.—Patent dated September 2, 1862.—This invention consists in providing the flanch to which the chimney is attached with a pendent cylinder which encompasses the cone or deflector of the burner, and is fitted thereon in such a manner as to be allowed to rotate, the pendent cylinder being provided with an opening corresponding in size to a similar opening in the cone or deflector, and the two openings being made to coincide with each other by turning the flanch in one direction, so that the top of the wick tube may be exposed for light-

ng without the necessity of removing the chimney.

The chimney is secured to the flanch by means of curved slots and lips upon the latter.

Claim.—The flanch G having the cylinder F attached, the latter being fitted on the cone or deflector D, as shown, so that it may turn freely thereon, and at the same time be prevented from being casually detached, in combination with the two openings gh, made respectively

in the cone and cylinder, all arranged as and for the purpose specified.

Also, providing the flanch G with two curved slots e e and lips c c, substantially as shown, for securing the chimney to the flanch, and at the same time admit of the expansion of the chimney under the heat of the flame, as set forth.

No. 36,375.—W. E. SMITH, of Port Washington, Pa.—Improvement in Apparatus for Cleaning Wells.—Patent dated September 2, 1862.—This invention consists in the employment of a box provided with a shovel or scraper and a gate, the box being attached to the lower end of a sectional shaft, so arranged as to enable a well to be cleaned without the ne-

cessity of a person descending the same for the purpose.

Claim.—The box A attached to the extension shaft E, and provided with the shovel or kraper F, spur I, and gate B, all combined and arranged to form a new and useful article or

device, for the purpose specified.

No. 36,376.—ROBERT SPENCER, of Brooklyn, N. Y.—Improved Harness Saddle.—Patent dated September 2, 1862.—This saddle is constructed of two wooden bearings, connected at their upper ends by a metal spring underneath which is placed an elastic strip of wood, the apper surfaces of the wooden bearings being grooved so as to receive the covering of the saudle.

Claim.—The combinations with the bearings A A, when constructed of wood and covered with felt or other fabric, so as to do away with the usual method of stuffing, of the elastic metallic plate B, and the elastic strip C, or either of them, in the manner and for the purpose of the purpose of the construction of the purpose of the purpo

substantially as herein shown and described.

No. 36,377.—CHARLES H. WATERS, of Groton, Mass.—Improvement in Looms for Westing Wire Cloth.—Patent dated September 2, 1862.—This invention consists in preparing the filling wire for each throw of the shuttle, that is to say, drawing off from the shuttle boliza and straightening the required length for the shoot, when the shuttle is in its box, and bolder the shoot of wire thus drawn off between surfaces, in such a manner as to prevent all twisting. kinking, or breaking, and at the same time to allow it to yield readily to the draught of to shuttle, thus relieving the shuttle in its transit from all drag in the wire other than what s necessary to draw the prepared shoot into the shed of the warp, the rendering of the wire r.a. the bobbin being checked during the flight of the shuttle.

Claim.—First, the drawing off of a shoot of filling wire, while the shuttle is in its box. 5.1.

stantially as described.

Second, the holding of the shoot of filling wire, after it has been drawn from the belt a until it is drawn or thrown into the open shed of the warp by the shuttle, substantaly

Third, the use of the fly shuttle, in throwing a shoot of filling wire after it has been dawn and held, substantially as described.

No. 36,378.—SETH WHEELER, of Albany, N. Y.—Improvement in Links for Horr-Powers.—Patent dated September 2, 1862.—This invention consists in extending the stude. journals on the link far enough beyond the wheels to receive a supporting bar which exact from one stud or journal to the other, and is provided with a slot or opening to receive the outer end of the lag which passes through a slot or opening in the link, so that the weight a strain is equally distributed on both sides of the wheels.

Claim. - The supporting link E, or its equivalent, applied to the stude or journals C C. the purpose of distributing the weight or strain on both sides of the wheels D D, substanta!

as and for the purpose specified.

No. 36,379.—S. A. WHEELOCK, of Charlton, Mass.—Improvement in Churns.—Patent dir. September 2, 1862.—This invention consists in the employment of a gear wheel operated to a crank, and meshing with a pinion attached to a fly wheel, the latter being provided with rod connecting with a lever to the free end of which is attached the churn dasher.

Claim.—The above described mode of operating churns, when constructed and operated

the manner and for the purposes as above set forth and described.

No. 36,380.—Joseph White and Angus Agnew, of Philadelphia, Pa.—Improvement of Coal-Oil Lamps.—Patent dated September 2, 1862.—This invention consists in the cup ment of a device for spreading the flame and consuming the smoke, so as to dispense with the usual glass chimney. It is composed of a bent plate having an elongated opening, from each end of which extends downwards an inclined strip to the top of the wick tube.

Claim.—The spreader, having in its top a an elongated opening and inclined or currently extending from the ends of the said opening to the upper edge of the wick tube. whole being applied to the wick tube or cap of a coal-oil lamp, as set forth, for the purpose

specified.

No. 36,381.—W. H. WILLARD, of Cleveland, Ohio.—Improvement in Boots.—Patent care September 2, 1862.—This invention consists in attaching to the inside of a boot one or marpockets having a metallic lining and a lappel at the top, for the purpose of carrying most or other valuables.

Claim.—One or more pockets constructed and arranged as described, in combination *:

the boot, for the purpose specified.

No. 36,382.—A. I. Ambler, of Milwaukie, Wis., assignor to Himself, R. N. Ambler, et W. MARTIN, of the same place .- Improvement in Car Coupling .- Patent dated September 1862.—The sockets of the draw-bar of each car are constructed with a slot extending area. the front and both sides, so that the link may be inserted therein laterally as well as kerris-The shackle pin is provided at its lower end with a key to prevent its being accident tally withdrawn from the draw-bar. Each socket is provided with a link permanently seeby a smaller link through which passes a vertical bolt at the rear end of the socket. The draw-bars rest upon eccentrics placed upon transverse shafts secured to the under side of the frame, by means of which the draw-bars of cars, having platforms of different heights, may be readily adjusted to each other.

Claim.—First, providing the draw-bars A with sockets b, extending entirely through the from side to side, to admit of the lateral insertion of the link or shackle C, as and for the PT

pose herein set forth.

Second, the keys d fitted in the lower parts of the pin E, in combination with the shape and

recesses f in the draw-bars, as and for the purpose specified.

Third, the securing of the links or shackles C in the draw-bars A A by means of the interest and the securing of the links or shackles C in the draw-bars A A by means of the interest and the securing of the links or shackles C in the draw-bars A A by means of the interest and the securing of the links or shackles C in the draw-bars A A by means of the interest and the securing of the links or shackles C in the draw-bars A A by means of the interest and the securing of the links or shackles C in the draw-bars A A by means of the interest and the securing of the links or shackles C in the draw-bars A A by means of the interest and the securing of the links or shackles C in the draw-bars A A by means of the interest and the interest and the securing of the links or shackles C in the draw-bars A A by means of the interest and the securing of the links or shackles C in the draw-bars A A by means of the interest and the securing of the links or shackles C in the draw-bars A A by means of the interest and the securing of the links or shackles C in the draw-bars A A by means of the interest and the securing of the links or shackles C in the draw-bars A A by means of the interest and the securing of the links of the l D and bolts C, when used in connexion with the sockets b, extending entirely through draw-bars from side to side, as set forth.

Fourth, adjusting the draw-bars A vertically at their outer ends to suit cars of platforms of different heights by means of eccentrics, cranks, or their equivalents, placed on shafts, and having the draw-bars resting on them, and operating or turned by means of cranks or gearing, as set forth.

Fifth, the combination of the sockets b, links or shackles C, and pins E, all arranged in connexion with the draw-bars A, as and for the purpose set forth.

No. 36,383.—P. S. BOOTHEY, of Biddeford, Maine, assignor to J. W. BROOKS and WARREN SOULE, of the same place.—Improved Fastening for Gaiter Boots.—Patent dated September 2, 1862.—This invention consists in providing the boot at each side of the opening in front with a corded or raised edge sewed upon the edges. Upon these raised edges are fitted clasps connected by a link, and attached to a cord by means of a loop in such a manner as to allow the clasps to slide over the edges, so that by means of the cord the clasps may be pulled up, thus drawing the edges together and fastening the boot. By pulling down the clasps the boot becomes loosened.

Claim.—The clasp B, with its connecting link C, or its equivalent, to be used in connexion with the cords D and E, loop G, and corded or raised edges F F, constructed and arranged in

the manner and for the purpose specified.

No. 36,384.—G. W. LOCKWOOD, of New York, N. Y., assignor to HORACE CARPENTER & Co., of the same place. - Improvement in Skeleton Skirts. - Patent dated September 2, 1662.—This invention consists in connecting a series of hoops that form the skirt, by means of two cords running each in zig-zag lines from top to bottom, for the purpose of giving the hoop an elasticity in the direction of its length.

Claim.—The arrangement of the cords C and D, relatively to each other and to the hoops,

substantially as and so as to produce the effect above described.

No. 36,385.—Franz Vester, of Pforzheim, Grand Duchy of Baden, assignor to Charles WAGNER, of New York, N. Y.—Improved Device for Protecting the Soles of Boots and Stees.—Patent dated September 2, 1862.—This invention consists in the employment of thin pieces of hardened steel of any desired form fitted in corresponding recesses in the face of the sather sols, and connected by rivets to thin plates sunk in the inner side of the sole.

Claim.—The employment of the thin hardened plates or washers with rivets connecting

them with the soles of boots and shoes, substantially in the manner and for the purpose set

No. 36,386.—C. W. CAHOON, of Portland, Maine.—Improvement in Lamps.—Patent dated September 2, 1862.—This invention consists in combining together the wick-tube holder or head of the lamp and handle in such a manner that the body of the lamp is suspended from the lamp head when the lamp is carried, and that the handle and lamp head are both simultaneously attached to the body of the lamp by screwing the lamp head to the collar, which latter is attached to the neck of the lamp body. To the handle is secured a pivoted chimney holder, the handle forming a connexion between the said holder and lamp head, so that the three may be simultaneously attached to or detached from the lamp body. An adjustable chimney fastening is formed of a spring plate of V-form, its branches passing up on the inside and outside of the air screen, and perforated to fit upon a tongue which holds it in place.

Claim.—The combination of the lamp head and handle, substantially as set forth Also, the combination of the lamp head, handle, and vibratable chimney holder, fitted with

chimney fastenings, substantially as set forth.

Also, the combination of the U-spring, chimney, fastening, and tongue, substantially as set

Also, the combination of a corrugated air screen and deflector, substantially as set forth.

No. 36,387.—J. R. AGNEW, of Mercersburg, Pa.—Imprevement in School Globes.—Patent dated September 9, 1862.—This invention consists in mounting two hemispheres in standards which slide in parallel planes towards or from each other in such a manner that, on separating the hemispheres, the several parts or lines marked on their inner and outer surfaces retain their relative position opposite to each other. Combined with a screw shank projecting from the lower end of the head in which the armed standards of the hemispheres slide is a primary pedestal provided with a series of screw sockets, in such a manner that one or more globes can be placed on the primary pedestal or taken from the same and returned to their original pedestals at pleasure. With the sliding armed standards are combined slotted swivel sockets, so that the globe can be turned freely in either direction.

Claim.—First, the arrangement of the armed sliding standards or supports D, in combination with the hemispheres A A', constructed and operating substantially as and for the purpose

shown and described.

Second, the arrangement of the primary pedestal F, provided with a series of screw sockets, in combination with the screw shank of the head C, and with the armed standards D and hemispheres A A', constructed and operating substantially as and for the purpose set forth. Third, the slotted swivel sockets d^* , in combination with the head C^* , constructed and

operating substantially in the manner and for the purpose specified.

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No. 36,388.—SARAH A. BALDWIN, of Waterbury, Conn.—Improvement in Door Plates and Card Receivers.—Patent dated September 9, 1862.—This invention consists in combining a door plate and slides with a card receiver and a clamp, arranged in such a manner that a visitor may be informed whether the occupant of a house is at home or not; and, in case of not being at home, admit of the card of the visitor being deposited within the receiver, so that the occupant may obtain a knowledge of the call when arriving at home.

Claim.—The combination of the door plate A, reversible slide B, and card receiver C, a-

ranged substantially as and for the purpose herein set forth.

Also, the clamp D when applied to the door plate A, and used in connexion with the care receiver C for the purpose specified.

No. 36,389.—CORTLAND BALL, of Augusta, Mich.—Improvement in Hammers.—Paux dated September 9, 1862.—This device is composed of two parts; one part having a sleed offset serving as a jaw, through which the other is made to slide, and provided with a caw, the sliding piece having a hammer head at one end and a screwdriver at the other cal When the handles are pressed together the device will act as a wrench.

Claim.—The within-described tool as an article of manufacture, constructed and used u

and for the purpose herein specified.

No. 36,390.—URIAH BILLINGS, of New Bedford, Mass.—Improvement in Machines in Making Horseshoes.—Patent dated September 9, 1862.—Within a suitable frame are arranged two shafts with their axes parallel with and perpendicular to a third shaft, the latter beat provided with adjustable journals so as to be capable of being moved towards the two in named shafts. On each of the shafts are swaging rolls for imparting the proper variable that ness of a shoe blank to the bar of iron to be operated upon, and also to crease and groove us same. In the rear of the bite of the rolls is an adjustable stop, between which and the rolls a movable buttress operated by a lever for the purpose of preventing the shoe blank for curling or bending laterally while being formed.

Claim.—An improved horseshoe blank former, or combination of the adjustable, swaps and creasing rolls I K L, and a movable buttress N, constructed and applied and arraight together, and with mechanism for operating them, substantially as hereinbefore described

No. 36,391.—J. P. Blake, of Waterbury, Conn.—Improvement in Making Sening-Lechine Needles.—Patent dated September 9, 1862.—This invention consists in a method of making sewing-machine needles by machinery, which clongates the portion of the wire forms the body of the needle, thus reducing it in diameter and extending it in length. so the the surface of the wire is worked into the body of the needle instead of being pared of all wasted.

Claim.—The method of making sewing-machine needles by machinery, which elongue the portion of the wire which is to form the body of the needle, thus reducing it in diamet

and extending it in length, substantially as described.

No. 36,392.—J. P. BLAKE, of Waterbury, Conn.—Improvement in Machinery for Main! Sewing Machine Needles.—Patent dated September 9, 1862.—The object of this inventors. to provide the proper machinery for making the needles named in the above-mentioned pass. its construction and operation will be understood from the claim.

Claim.—The combination of rolls fitted with grooves alternately flat and octagonal, for the purpose of reducing the transverse dimensions of metal rods and elongating them in length

substantially as described.

Also, the combination of rolls, having a groove with an enlarged space of sufficient size permit the but of the piece of metal whose dimensions are to be reduced to be introduced between the rolls with a gauge, which determines the longitudinal position of the rod or cir piece of metal before the rolls begin to bite upon it, substantially as described.

Also, the combination of rolls grooved, substantially as described, with gauges to deterra the positions of the rods of metal, and with guides which hold the roda edgewise wien

rolls begin to act upon them.

No. 36,393.—J. S. BROWN, of Washington, D. C.—Improvement in Addressing Letter-Patent dated September 9, 1862.—This invention consists in the use of separate transfers? cards of address in connexion with envelopes or wrappers made sufficiently transparent 34 their face, or a part of the same, to enable the address upon the card to be distinguish whereby the same cards may be used a number of times by being returned to the person 🖘

Claim.—The envelopes made transparent or equivalently prepared, so as to receive properly exhibit the cards of address, substantially as and for the purpose herein specied

Also, the combination of the cards of address and the transparent or equivalent envelope substantially in the manner and for the purpose herein specified.

No. 36,394.—E. A. CONE, of Milford, Mich.—Improved Clothes Pin.—Patent dated by tember 9, 1862.—This invention is explained by the claim and engraving.

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Claim.—Making clothes pins of two pieces of wood of the form herein specified, and two pieces of wire which serve the double purpose of holding the pieces A A together at a proper distance, and as springs to allow the two ends to open and close as described, the pin when finished having both ends fitted for the line in the manner specified.

No. 36,395.—FREDERICK DAYTON, of Watertown, and W. S. KELLY, of Waterbury, Conn.—Improvement in Stereoscopes.—Patent dated September 9, 1862.—This invention consists in applying a clock movement to a continuous sheet of stereotype pictures in such a manner that the latter will be operated and brought consecutively before the lenses and the movement of the sheet placed entirely under the control of the person using the apparatus, so that the sheet may be started and stopped at any time, and also be capable of being unwound during its operation without any special manipulation on the part of the operator other than

simply applying the key to the proper roller on which the sheet is to be wound.

Claim.—First, a stereoscope case A, provided with a clock movement H and a continuous sheet B of stereoscopic pictures, so arranged that the sheet will be actuated or moved by the clock movement, and the pictures made to pass before the lenses of the case, substan-

tially as set forth.

Second, the sliding bar E, arranged in the relation as shown with the journal s of the lower roller C of sheet B, and having one of the journals of the shaft I of the upper roller D fitted in it, whereby the pinion J on the shaft of roller D may be detached from the clock movement, so that the sheet B may be wound on the lower roller C by simply placing the key on the journal s of roller C, as set forth.

Third, the rod or stop K, in combination with the clock movement H, as and for the pur-

pose specified.

No. 36,396.—HENRY DUNHAM, Jr., of Abington, Mass.—Improvement in Machines for Sewing Soles to Boots and Shoes.—Patent dated September 9, 1862.—This invention consists in the combination of a curved hooked needle and a last made with a concave bottom in order that the needle may work through the upper leather and the sole at or near their adjacent edges. The last holder is combined with its carrying plate in such a manner as to enable the former to be inclined or adjusted with respect to the latter as may be necessary from time to time to vary the position of the last in order to maintain the plane of the guide-wheel flanch tangentially to the curve of the bottom of the last. The guide-wheel is made with a flange similar to a car wheel, against which and the periphery of the said wheel the sole and the upper are borne while being sewed together. The needle and awl are both curved in the arc of a circle and carried respectively by two bent levers arranged side by side, and connected to shafts operated by cams to impart the necessary motions for forming the "chain stitch."

Claim.—The combination of the covered and hooked needle with the last, constructed with

a concave bottom, the whole being substantially as described and represented.

Also, the combination of the last holder with its carrying plate, in such a manner as to enable the former to be inclined with respect to the latter, substantially in manner and as set

Also, the above-described arrangement of the feeding mechanism with respect to the lastcarrying plate supporter M, and the sewing mechanism.

Also, a curved awl and a curved hook needle, arranged and combined with a guide wheel G and a last having a concave bottom, the whole being in manner substantially as specified.

No. 36,397.—LOVETT EAMES, of Kalamazoo, Mich.—Improved Hydraulic Apparatus.—Pated dated September 9, 1862.—This invention relates to an automatic forcing apparatus which is intended for throwing water to great heights and for furnishing water to cities, towns, factories, &c., which may be situated above the level or source from which it is desired to obtain the supply.

Claim.—First, the piston J working in an upright cylinder A, and so constructed that it will be acted upon in its upward stroke by the force of a head of water, and then allowed to

descend by virtue of its own gravity when the head is cut off, substantially as herein set forth. Second, the water chest or divisional box E, arranged below the main piston J at the bottom of the body of the machine, and furnished with a double disk valve F, valve seats f and c', and eduction chambers, substantially as herein set forth.

Third, controlling and regulating the passage of the spent water below the piston, through said piston, by means of a loaded plate valve H or its equivalent, substantially as herein set

Fourth, cutting off the pressure under the piston and its loaded valve at the instant the water has exerted its maximum force upon the piston, by means substantially as herein set

Fifth, arranging above the piston J a force pump, when this pump receives its power from, is connected to, and operates in combination with, the mechanism in the body of the machine, substantially as herein shown.

Sixth, the central equalizing chamber which is immediately above the double valve F, for regulating the flow of water to the piston J, at the commencement of its upward atroke, sub-

stantially as herein set forth.

Seventh, tripping the valve k, by means of the extension jointed levers l l, or their

equivalents, as herein set forth.

Eighth, cutting off the supply of water to the chamber A previously to the tripping of valve k by means of rod K' and double valve F, so that the double valve F can be driven firmly to its seats by the force of the head of water, essentially as set forth.

No. 36,398.—LOVETT EAMES, of Kalamazoo, Mich.—Improved Water Engines.—Patent dated September 9, 1862.—This invention consists in arranging at the side of a large cylinder of suitable capacity, and in which works a piston, a smaller cylinder which is open at both ends and supplied with a peculiar arrangement of valves and valve seats, and which commicates with the large cylinder by means of ports at or near the ends of the two cylinder, whereby both the valves of the smaller cylinder are caused to move at one and the same time and a space equal to the whole of one port kept open at all times.

Claim.—First, so constructing and applying valves to a water engine that they will control both ports, and keep a space equal to the whole of one part open all the time, essentially

as herein described.

Second, the solid double-laced valves L L', in the cylinder G, valve seats k k', i i', and ports g g', arranged and combined with the cylinder A and its piston E, substantially as and for the purposes herein set forth.

No. 36,399.—R. B. Fitts, of Philadelphia, Pa.—Improvement is Treating Night Soil.—Patent dated September 9, 1862.—This invention consists in separating from the watery portion of night soil most of the phosphoric acid and ammonia, by precipitating them chemically and mechanically with the more solid portions, running off the superfluous water and the mixing the residue with an additional portion of the charcoal and sulphate of lime in connexion with about one per cent. (of the night soil) of chloride of sodium or common sail, into a thoroughly mixed semi-fluid condition, and finally putting it up in this condition in tight barrels for transportation and subsequent use for agricultural purposes.

Claim.—The method or process of treating and putting up night soil for transportation and

agricultural purposes, substantially as described.

No. 36,400.—Louis Friese, of Stuttgart, Germany.—Improvement in Riding Saddles.—Patent dated September 9, 1862.—Each side of the frame of the saddle-tree is formed of a front plate, central connecting link and back plate, which are connected to each other by means of hinges. The several plates and links are made of thin sheet metal and the two sides of the frame are connected in front by a bow and in the rear by the cantal, all so arranged as to allow the parts to readily adapt themselves to the body of the horse.

Claim.—The combination of the hinged links C, plates B D, bow E, and cantel F, in the

manner herein shown and described.

No. 36,401.—G. P. GANSTER, of New York, N. Y.—Improvement is Breech-loading Ord-mance.—Patent dated September 9, 1862.—This invention consists in applying to a cannon an eccentric breech-pin attached at one side of the centre of the breech, so that when half turned, an aperture in the breech-pin through which the charge is inserted is brought in line with the bore of the cannon.

Claim.—The eccentric breech-pin B, constructed and operating substantially as described.

No. 36,402.—R. J. Gatling, of Indianapolis, Ind.—Improved Steam Marine Ram, &c.—Patent dated September 9, 1862.—This invention consists in placing the ribs side by side and touching each other from bow to stern, and also the upper and lower deck transverse frame and vertical timbers, so as to combine great strength and capacity of resisting concussion. The bow head is composed of a solid mass of timbers keyed and bolted firmly together and covered with a series of curved and pointed metal shields, the vessel being designed to act as a "ram."

Claim.—First, arranging and combining the ribs b b and transverse frame timbers c and d, and vertical frame timbers l, side by side, so as to form continuous bearings against each other, anteriorly and posteriorly, the same being halved or dovetailed together at their crossing, which arrangement allows the lower parts of the rib timbers to rest on and form a crotchet over the keel, as shown in Fig. 3.

Second, the V or crotchet shaped metal bow shields f f f f f f f, constructed, arranged, and combined substantially as described for the uses and purposes set forth.

No. 36,403.—C. W. GRANNIS, of Gowanda, N. Y.—Improved Condenser for Coal-Oil Stills.—Patent dated September 9, 1862.—This invention consists of a condenser formed with sloping sides in the form of a roof which is placed upon a cauldron or kettle and provided with an internal flange or trough for conducting off the condensed vapors to an external conductor. Over the condenser is arranged a water pipe provided with perforations on its under side for the purpose of throwing water upon the outside of the condenser and aid the process of condensation.

Claim.—A condenser which combines, first, sloping sides.

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Second, an internal trough to catch and conduct the condensed vapors to an external

Third, an external spout or conductor passing through or in a trough of cold water, to

mduct the condensed vapors to the warm or cooler.

Fourth, jets of water or a body of cold water upon its outside, in combination with a aldron or still having a broad open top, upon which the condenser is fitted, forming a cover hereto, so that the vapors arising from the entire surface of the oil in the still may pass heretly to the condenser, substantially as described.

No. 36,404.—J. S. GRAY, of New York, N. Y.—Improvement in Self-generating Vapor Burners.—Patent dated September 9, 1862.—This invention relates to that class of burners is which the jet is situated at a distance from the reservoir which contains the fluid, in order to guard against the danger of explosions, and the improvement consists in the arrangement of the parts named in the claim and shown by the engraving.

Claim.—The combination of a wick tube, a heater cap, a conductor, a jet and a mixing tube, when arranged and operating substantially in the manner herein described.

Also, the combination of a jet, a mixing tube, and an adjustment screw, when arranged and operating as described, for the purpose of regulating the relative proportions of air and vapor admitted to the burner, as set forth.

No. 36,405 .- W. O. GROVER, of West Roxbury, Mass .- Improvement in Sewing Machines .-Patent dated September 9, 1862.—This invention relates to certain devices applicable only to machines using what is termed the Grover & Baker, or double-thread loop stitch, and consists in certain mechanism for actuating the thread carrier, and in combining the same with an assistant looper. A device is also used which may be applied to other varieties of sewing machines, and consists in certain apparatus for governing the upper thread in its passage from the bobbin to the needle.

Claim.—First, giving a vibrating motion to a thread carrier, in directions perpendicular to its advancing and retreating motions, or nearly so, by means of a revolving surface, inclined to a revolving shaft, the thread earrier stock being forced against that surface, and

the contrivance acting substantially as specified.

Second, giving four motions to a thread carrier by means of an inclined revolving surface, a pin or sleeve, and a pivot, the whole either acting on the stock or controlling its motions,

substantially as specified.

Third, in combination with a thread carrier having four motions, a stationary assistant looper, substantially such as described, the two acting in combination, substantially in the manner set forth.

And, lastly, in combination a vibrating thread tension, a stationary thread tension, and an eye or leader on a needle arm, when the three are relatively arranged and act in combination, substantially as described, for the purposes specified.

No. 36,406.—Robert Haering, of New York, N. Y.—Improved Composition Substitute for Horn, Hard Rubber, &c.—Patent dated September 9, 1862.—By treating linseed oil with protochloride of sulphur, a peculiar elastic gummy substance is obtained. This invention consists in compounding and masticating this substance with asphalt, and with small quantities of gutta-percha and sulphur, and rolling, moulding, or otherwise forming the compound into suitable forms, and subjecting it to heat.

Claim.—The composition made by mixing the changed linseed oil with asphalt, sulphur, and gutta-percha, in the manner and in about the proportions herein specified.

No. 36,407.—John Hardick and C. B. Hardick, of Brooklyn, N. Y.—Improvement in Values for Steam Engines.—Patent dated September 9, 1862.—This invention consists in the employment of a stationary piston in a cylinder formed upon or attached to the main valve, and receiving steam from a suitable secondary valve, by means of which the valve is caused to move and admit steam on the opposite side of the engine piston. Concussion upon the main valve is prevented by means of a cushion of steam confined in an annular space formed by a head or disk secured to the end of the piston rod.

Claim.—The stationary piston g, in combination with the cylinder e, formed with or attached to the valve b, substantially as and for the purposes specified.

Also, the disks k k and annular recesses l l, in combination with the said valve b and cylinder e, to cushion the valve and prevent concussion, as set forth.

No. 36,408.—Samuel Horsley and E. H. Jones, of Liverpool, England.—Improved Apparatus for Cleaning and Polishing Boots and Shoes.—Patent dated September 9, 1862.—
This invention consists in the construction of an apparatus for supplying blacking, paste, or powder to a pair of rotary brushes, by means of disks or rollers, which freely revolve on spindles provided with crank levers, so arranged that the disks or rollers can be brought to bear upon and support the brushes, and, after providing them with a supply of the paste or powder, be automatically removed from contact with the same.

Claim.—The combination with the rotary brushes or buffers h and i of the disks or rollers π and fulcrum and crank-lever spindles o and p, for supplying the cleaning substance or blacking from the troughs or receptacles l, substantially as herein described.

No. 36,409.—Albert Johnson, of Putnam, Conn.—Improvement in Water Elevators.— Patent dated September 9, 1862.—This invention consists in the employment of a crank box fitted loosely upon the main shaft, and enclosing a wheel which is secured to the said shaft. This box contains a pawl and ratchet and a slide, which latter is kept in contact with the periphery of the wheel by means of a spring, so as to serve as a brake. Attached to the slide is a bar, the opposite end of which is fitted upon a pin connected with a small pulley fitted upon a shaft passing through the crank box, so that the latter is readily detached from the shaft and allowed to descend by its own gravity.

Claim.—The crank box E placed loosely on the shaft C, and provided with the slide or

brake H, spring I, pulley e, and bar L, in connexion with the wheel D, attached permanenty to the shaft C, and placed within the crank box, all being arranged to operate substantally

as and for the purpose set forth.

Further, the graduating of the pressure of the slide or brake H on the wheel D, by means of the bar J, adjusted by the screw K, so as to regulate the strength of the spring I, but its only when used in combination with the crank box E and the mechanism contained within it, for the purpose specified.

No. 36,410.—E. B. JUCKET, of New Haven, Conn.—Improvement in Hose Coupling.—Patent dated September 9, 1862.—This invention consists in the employment of a ring or open at one part of its circumference, so as to allow it to expand and slip over the hose, and made tapering upon its outer side, over which is screwed a nut having a corresponding taper on its inner side, by means of which the ring is contracted around the hose, so as to binl firmly upon the coupling.

Claim.—The conical screw ring D and nut E, constructed substantially as described in combination with hose couplings, in the manner and for the purpose substantially as been

set forth.

No. 36,411.—C. W. T. KRAUSCH, of Chicago, Ill.—Improvement in Engine Indicators— Patent dated September 9, 1862.—This invention consists in the employment of a travering paper or other suitable material prepared with longitudinal lines, and attached to an endess belt so operated as to receive a motion corresponding to the progress of the engine, and used in connexion with markers that communicate with the several working parts of the engine, so as to indicate upon the record sheet the variation of speed of the engine, the amount and variation of the load, the amount of opening of the throttle valve and degree of expansion and such other conditions of the engine as may be desirable to be cognizant of during is operation.

Claim.—The indicator and recorder, constructed and operated substantially as described

for the purpose of making a combined record of the performances of an engine.

No. 36,412.—JACOB KRITSCH, of Binghamton, N. Y.—Improvement in Securing Boms to Wheel Hubs, &c.—Patent dated September 9, 1862.—This invention consists in province the hub box, which passes through the whole length of the hub, with a screw thread. that the box may be screwed tightly into the hub, and thereby securely hold. The ends of the spokes rest immediately upon the screw thread of the box, and assist in securing it place. The hub box is widened near its inner end into a broad flange, through which and

the "moon plate" are passed short screw bolts, so as to hold the axle in the box of the hub.

Claim.—The arrangement of the perforated flanch d with the screw bolts passing through it, in combination with the screw c upon the exterior of the box B, so that by unscrewing the box access may be had to the inside of the flanch, for the insertion or removal of the

screw bolts, as herein shown and described, for the purpose set forth.

No. 36,413.—WILLIAM KUEBLER and HENRY BEIERLEIN, of Philadelphia, Pa.—Improvement in Lamps.—Patent dated September 9, 1802.—The nature and object of this invention are explained by the claim and engraving.

Claim.—The described burner for coal-oil lamps without a chimney, in which the gascondensing chamber d is provided with an internal bottom flange g, the position of g and its proportionate size of opening being in relation to the wick, arranged as set forth.

Also, the slitted gas condenser d, combining with the internal bottom flange g, the slitted top as set forth, when the slit l is shaped and situated in relation to the slit v in the draught chamber e, as herein set forth.

No. 36,414.—G. T. LEWIS, of Philadelphia, Pa.—Improvement in the Preparation of White Oxide of Zinc for use in Paints.—Patent dated September 9, 1862.—This invention consists in subjecting the white oxide of zinc in its dry state to the combined action of friction and pressure, by which means its bulk is greatly reduced, and it is enabled to be ground with a much smaller quantity of oil, thereby causing it to have greater body.

Claim.—The preparation of white oxide of zinc for the manufacture of paint, by subject

ing it to the combined action of friction and pressure, substantially as herein described whereby its density is increased, and the paint caused to have greater "body."



No. 36,415.—ADOLPHUS LIND, of San Francisco, Cal.—Improvement in Water Wheels.—Patent dated September 9, 1862.—This invention consists in placing buckets upon the periphery of a drum which is fitted within a cylindrical case, and used in connexion with a cylindrical abutment placed in contact with the drum, and provided with recesses to receive the buckets of the wheel; the abutment being also placed within a case, and the parts being arranged with a view to admit of the ready discharge of the water after acting upon the wheel, so that the latter will not be retarded in its movement, or have its efficiency diminished

by carrying the water when its velocity diminishes.

Claim.—The employment of two sets of buckets c c d d and separating flange C, in combination with the drum A and the drum E, recessed to receive said buckets; the said parts

being arranged and operating together in the manner herein shown and described.

No. 36,416.—R. J. MARCHER, of New York, N.Y.—Improved Device for Cutting UP Composition Ornaments used for Picture and Mirror Frames, Architectural Purposes, &c.—Patent dated September 9, 1862.—This invention consists in the employment of a knife-stock composed of two parallel side pieces connected by transverse bars and a screw rod, the knife being fitted in the stock, and so arranged as to cut off from the base or bed of the composition upon which ornaments used for picture or mirror frames, &c., are formed in basso rdiero by moulds.

Claim.—The stock A, formed of two side pieces a a, connected by rods b, or their equivalents, and provided with a screw rod B and thumb nut C, in connexion with the knife or planer D, fitted in the stock A, substantially as shown and described, and all arranged to be used with or applied to the bed or base of the ornament, for the purpose herein set forth.

No. 36,417.—C. B. MATTHEWS of Oquawka, Ill.—Improvement in Lamp Burners.—Patent dated September 9, 1862.—This invention consists in the employment, in connexion with a lamp top and chimney, of a clamp constructed of a wire bent so as to form a coiled spring and two semicircular jaws, the free ends of which terminate in eyes which may be readily grasped by the finger and thumb, so as to expand them, and allow them to be removed from the flange of the lamp chimney upon which they are fitted. The wick fork or spurwheel shaft is mounted upon an elastic bar, bent at its lower end, and secured to the wick tabe at the bottom of the burner, so as to keep it in contact with the wick, and admit of its

adaptation to wicks of different thicknesses.

Claim.—The arrangement of the spring D with the lamp top A, cone C, and chimney E, in the manner herein shown and described, so that the said spring will adjust itself, both rertically or laterally, to the chimney, and press the chimney with a yielding pressure in both directions will appear to the chimney.

both directions, all as set forth.

Also, having the wick or spur-wheel shaft mounted upon a spring, in the manner and for the purpose herein shown and described.

No. 36,418.—I. F. MAYNARD, of Nashua, N. H.—Improvement in Spinning Fliers.—Patent dated September 9, 1862.—This invention relates to a method of attaching the flier to the wheel or cog gearing by means of an interlocking device formed by turning a true circular tenon upon the end of the whirl or on the gear wheel, and then forming upon the same two shoulders, over which is placed the collar of the flier, with corresponding shoulders, so as to fit one within the other.

Claim.—The construction of a roving or spinning flier formed with an interlocking base or pedestal collar ffgg, and provided with a keying or interlocking tenon dede, and whirl C2 C2, or a gear connexion C C, substantially as herein described, and as fully exhibited in

the accompanying Figures 1, 2, 3, 4, 5, 6, 7, 8.

No. 36,419.—Antonio Meucci, of Clifton, N. Y.—Improvement in Treating Petroleum and other Oils to Produce a Vehicle for Paints and Varnishes.—Patent dated September 9, 1962.—This invention consists in rendering petroleum and kerosene oil, or other hydrocarbon liquids, fit to be used in paints, by the introduction of a current of oxygen gas, or of any other gas or liquid containing oxygen, and capable of parting with the same. With any other gas or liquid containing oxygen, and capable of parting with the same. With the petroleum, kerosene, or other oils, after they have been treated with hyponitric gas, is mixed an extract of the cakes obtained in the manufacture of linseed oil, together with a certain quantity of fish oil, for the purpose of giving to the said liquids the required consistency for painting purposes.

Claim.—First, the employment or use of hyponitric acid in treating petroleum, kerosene, or other oils, substantially in the manner and for the purpose described.

Second, mixing petroleum or other oil... after they have been exposed to a current of hyponitric acid as described, with linseed or with linseed "cakes" and fish oil, substantially in the manner and about in the proportions herein specified.

No. 36,420.—T. V. NICHOLS, of Olena, Ill.—Improved Hedge-Trimming Device.—Patent dated September 9, 1862.—This invention consists in the employment of a horizontal cylinder having knives attached to it parallel with its axis, and also provided at each end with a radial projecting knife, the cylinder being placed upon a frame mounted upon wheels, and operated by the draught movement of the machine, so as to trim the tops and sides of a

hedge at one operation.

Claim.—The horizontal knives c of cylinder K, for cutting or trimming the top surface of the hedge, in combination with the knives d d attached to the ends or disks b b of the cylinder, for trimming the sides of the hedge, said cylinder being connected to a shaft I place! on a mounted frame A, and driven from the wheel B thereof, substantially as described

No. 36,421.—M. T. RIDOUT, of Milwaukie, Wis.—Improvement in Padlocks.—Pazel dated September 9, 1862.—This invention consists in a combination and arrangement of parts named in the claim, for a proper understanding of which reference to the specificalize and drawings will be necessary.

Claim.—The combination of the bolt D with the spring s, the angular stud, the tunts

d, and the mainspring g, substantially in the manner and for the purpose herein set forth.

Also, the arrangement of the tumbler f with the keyhole cover a, the cam b, the spring catch i, the stop k, and the bolt D, or its equivalents of said parts, substantially in the manner and for the purpose herein set forth.

Also, the arrangement of the curved guard plate h with the tumbler f, the spring-catch.

and key pivot q, substantially in the manner herein set forth.

No. 36,422.—E. S. RITCHIE, of Brookline, Mass.—Improvement in Mariners' Companie Patent dated September 9, 1862.—This invention consists in the employment of an air cigit vessel for containing air placed upon a pivot within a reservoir containing any sumble liquid. Within the air-vessel are secured two parallel magnets, and upon its upper sume is a card with the proper compass marks upon it; the object being to protect the magnet against oxydation, and also serve to buoy the card and magnets, so as to bring less wegs upon the pivot.

Claim. - The arrangement and combination of the air-vessel E with the magnet or magnetical

nets G.

Also, the combination of the said air-vessel and magnet or magnets with the cards D. in same being for the purposes as specified.

No. 36,423.—JOHN ROBINSON, of New Wilmington, Pa.—Improvement in Machin In Holding Open Bags and Sacks.—Patent dated September 9, 1862.—This device is composed of two curved arms pivoted at their inner ends to a bar or handle, which is attacked in and allowed a vertical movement within a slotted standard. The outer ends of the curve arms overlap each other, so that when the upper end of a bag is placed upon them they my

be spread apart and caused to hold the bag in proper position to be filled.

Claim.—The bag-holder, constructed substantially as described, of the arms & proper position. to a handle d, projecting from a standard b, whether so arranged as to be adjustable to it?

height or not.

No. 36,424.—S. J. SEELY, of Brooklyn, N. Y.—Improvement in the Manufacture of Corp. gated Plates.—Patent dated September 9, 1862.—This invention is explained by the Claim.—Making corrugated iron plates for ships' armor, or other purposes, when reason of the irregularity of form or the thickness of metal required, such plates cannot produced by rolling wrought-iron, by first casting said plates, and then subjecting them the process required to change them to the condition known and distinguished as makes: iron.

No. 36,425.—J. S. SWAN, of Mongaup Valley, N. Y.—Improvement in Holdback : Wheeled Vehicles.—Patent dated September 9, 1862.—This invention consists in pivotes : the truck frame or perch of a vehicle two levers, in combination with two lines or charone of which is connected to a hinged segment so as to enable the levers to be raised in a the ground, and the other is connected with the harness in such a manner that, in going a hill, one of the levers may be lowered so as to prevent a retrograde motion of the velice

or the other may be lowered at any time to prevent a forward motion when desired Claim.—The arrangement of the levers F F' and slides b b', in combination with the aor chains de, all applied to a wheeled vehicle, and operating in the manner shown

described.

No. 36,426.—J. H. Shireman, of East Berlin, Pa.—Improvement in Horse Reliation Patent dated September 9, 1862.—This invention consists in the employment of a hand in placed under the control of the driver, and so connected with the axle and an inclined var as to enable the driver readily to raise the teeth and to discharge the hay collected there. and also force the teeth down to their work.

Claim.—First, suspending the hand lever N upon the axle B, so that the former may

ulate upon the latter in the manner and for the purpose described.

Second, the inclined "way" k, in combination with the hand lever N, arranged and of ting substantially in the manner and for the purpose set forth.

Third, the perforated bar T, in combination with the hand lever N and inclined "way" is substantially in the manner and for the purpose set forth.

No. 36,427.—JOHN SHAEFER, of Lancaster, Pa.—Improvement in Constructing and Attacking Iron Panels to Wooden Frames .- Patent dated September 9, 1862 .- This invention consists in making metallic panels, with rods or lugs attached to their upper and lower edges,

for the purpose of securing them within wooden stiles or frames of doors, window shutters, &c. Claim.—The manner of making metallic panels with rods or lugs a attached, and inserting them into wooden stiles, drawn together and held in place by means of burs or screws b,

substantially as set forth for the purpose specified.

No. 36,428 .- J. H. TANNER, of Frauenfield, Switzerland .- For Machine for Folding and Stitching Paper.—Patent dated September 9, 1862.—This invention consists in the arrangements of a stitching device and pressing or smoothing rollers, and of a series of folding blades, in such a manner that a piece of thread is drawn through each sheet of paper before the last fold is completed, and that when completely folded each sheet is passed by the action of a pair of take-off rollers through the smoothing and pressing rollers, from which it is discharged ready for the binder.

Claim-First, the arrangement of the elastic bands a2, e5, and clasps e6, or their equiva-

lents, in combination with the folding blades, as and for the purpose specified.

Second, the combination of a stitching device with the folding mechanism. Third, the arrangement of the shears k and nippers l, in combination with the stitching

and folding mechanism, substantially as and for the purpose specified. Fourth, the employment of the vibrating notched lever k' and curved slotted plate k3, as

described, for the purpose of operating the shears.

Fifth, the arrangement of the sliding clasp l2, in combination with the spring jaws of the nippers l, bracket l', and cross-bar l3, substantially as specified, for the purpose of opening and closing the nippers at the desired intervals.

No. 36,429.—HIRAM TUCKER, of Newton, Mass.—Improved Bed Bottom.—Patent dated September 9, 1862.—This device is constructed with flexible slats, extending lengthwise of the bedstead and made fast at the foot end, and capable of a free movement, to a certain extent, in the direction of their length, but not vertically at the head end; between the middle of their length and the foot of the slats is a traverse brace upon which the slats rest, so as to give them an undulating form and allow them to conform to the outline of the body.

Claim.—The undulating bed bottom, constructed and operating substantially as described.

No. 36,430.—WILLIAM VAN ANDEN, of Poughkeepsie, N. Y.—Improvement in Harvest-ers.—Patent dated September 9, 1862.—The nature of this invention will be understood from the claim.

Claim .- First, making a section of the side rail of the frame next to the cutter and in front of the axle adjustable by connecting the same to the end of the stationary part of the rail by a centre pin, so that when its lower end is disengaged from the end of the front rail of the frame it may rotate on the centre pin, substantially as hereinbefore described and for the purposes set forth.

Second, the combination of the cutter bed (with the cutter bar working thereon) with the adjustable section of the side rail, substantially as hereinbefore described and for the purposes

Third, the combination of the propeller wheel on the side next to the cutter, of a two-wheel mowing machine, with a frame having an oscillating motion transversely of the path of the machine when the said wheel is arranged on the outside of the side rail of the oscillating

frame, substantially as hereinbefore described.

Fourth, the use of the solid or fixed knife-edge bearing or shoulder formation on the propelling wheel axle, as a bearing on which to balance the frame of the machine and prevent it from slipping from side to side thereon, in combination with the said frame, and bearing d2 of the main driving-gear wheel F, substantially as hereinbefore described and for the purposes set forth.

Fifth, the combination of the cutter bar elevator lever, with the back end of the flooring or table and frame of the machine, behind the axle of the propelling wheels, substantially as

hereinbefore described and for the purposes set forth.

Sixth, the method of making an adjustable-spring driver's seat, in combination with the fixed or solid standard or spring stiffener projecting upward from the back edge of the table or flooring, substantially as hereinbefore described and for the purposes set forth.

Seventh, the combination of the self-adjustable compensating pole with a frame having an oscillating motion transversely of the path of the machine and drag chain, arranged and operating as hereinbefore described and for the purposes set forth.

Eighth, the use of the adjustable staple for locking the drag chain, in combination with a self-adjustable compensating pole and drag chain attached to an oscillating mower frame, substantially as hereinbefore described and for the purposes set forth.

Ninth, the arrangement of the cutter bar of a mower frame having an oscillating motion ransversely of the path of the machine and two propelling wheels, so as to operate forward of he axle of said propelling wheels, substantially as hereinbefore set forth.

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No. 36,431.—JOHN VIAL, of Cleveland, Ohio.—Improved Pump for Low-Pressure Steam Engines.—Patent dated September 9, 1862.—This invention consists in so constructing and arranging the several parts of the pump as to cause a constant flow of water through the crit pipe, while the piston is rising throughout its whole upper stroke, and is designed to avoid in this class of pumps, the concussion caused by the water reaching and reacting upon the bad of the cylinder at the moment the piston head is at its greatest speed.

Claim.—The cylinder B, plunger H, and piston head F, in combination with the valves D G M, and induction pipe A and exit pipe L, these several parts being arranged and operating

as and for the purpose specified.

No. 36,432 .- L. F. WHITNEY, of Charlestown, Mass .- Improvement in Rails for Street Railroads.—Patent dated September 9, 1862.—This invention consists in the construction of a rail having a continuous bearing for the car wheel, with enlargements or excrescences on its upper part, at short intervals, which are so placed and bear such a relation in size and height to the depth of the groove in which the flanch of the car wheel runs, that the people; of the wheel of a carriage will strike on one of the enlargements and rise over the rail when it is desired to direct it off the track.

Claim.—The tread rib f, in combination with the shoulder b, and equidistant laterally pro-

truding knobs, substantially as shown and described.

No. 36, 433 .- M. A. WINHAM, of North San Juan, Cal. - Improvement in Hose Couplings -Patent dated September 9, 1862.—This invention consists in the employment of clevises, hour or stirrups hinged or pivoted to one of the half couplings, in combination with lugs or noss. which are attached to the other half coupling in such a manner that by forcing the stimps down over the lugs the two half couplings are drawn tightly together, thereby producing close joint which is easily made and unmade.

Claim.—The employment, for the purpose of fastening hose couplings, of two or more hinged stirrups B, in combination with the wedge-shaped noses b, constructed and opening

substantially in the manner herein set forth.

No. 36,434.—J. W. WOOLSEY, of Niles, Mich.—Improvement in Potato Diggers.—Pake: dated September 9, 1:62.—This invention consists in the employment of a double mould bear formed of slats and provided with a front piece or coulter with shanks or wings attached the slats being constructed and arranged in such a manner as to facilitate the passage of the ext. between them, and at the same time throw the potatoes out of the hills and to either side of them, as the implement is drawn along.

Claim.—The standard C, shanks or wings E E, and bar F, in connexion with the slaw 6. of flat, oval, or any approximate form attached edgewise to the standard C and bar F, to G

erate as and for the purpose herein set forth.

Also, separately, the flat, oval-shaped slats G, when attached edgewise to the parts which support them, to operate as and for the purpose specified.

No. 36,435.—BENJAMIN ZURN, of New York, N. Y.—Improved Sawing Machine, aloped for the use of the Auger and Chisel.—Patent dated September 9, 1862.—The object of this invention is to combine a sawing machine which will be capable of slitting work or resawing and sawing scroll work, with a mortising machine and a boring device, the parts being 69 arranged that by a slight adjustment the machine may be used in any of the capacities alors

stated.

Claim.—The adjustable or sliding head C, in combination with the bar D and the spring I connected to the saw slides P Q, the saw being driven from the shaft T, substantially as in scribed, and all arranged to operate as and for the purpose set forth.

No. 36,436.—ELIJAH BARTON, of East Hampton, Conn., assignor to A. B. WHITE and J. W. BARTON, of the same place.—Improved Alarm Bell for Doors.—Patent dated & tember 9, 1862.—This invention consists in attaching the hammer directly to the stock of any of the bell by means of a spring, the hammer having such a relative position with the door and the bell as to be directly acted upon by the opening of the door and forced back in contact with the bell, to sound the slarm when the door passes it.

Claim.—An alarm door bell composed of a bell A, having a spring D with a hamner E

attached, secured to its arm or support B, substantially as shown and described.

No. 36,437.—BETHUEL KEITH, ADOLPH BEHR, and N. S. KEITH, of New York, N. I.— Improved Process of Calcining Ores and Minerals.—Patent dated September 9, 1862.—Its inventors say: "The nature of our invention consists in introducing into, with, and through a flame, the materials to be oxydized or formed into globules, in a minutely divided state and perfectly diffused through the air which is introduced therewith, in quantities sufficient to say port combustion and oxydation. The process is particularly applicable to ores known as it sulphurets and sulphurets."

Claim.—A mode or process of oxydizing (or roasting or calcining) all oxydizable substances. such as metals, minerals, sulphurets, bisulphurets and ores, and at the same time and opera-

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on reducing to a metallic state such unoxydizable metals as may be present therein, by the se of the apparatus, and in the manner herein described, or any other apparatus or manner abstantially the same, and which will produce the intended results.

No. 36,438.—B. F. LEE, of New York, N. Y., and H. A. Alden, of Fishkill, N. Y., assigns to the New York Rubber Company.—Improvement in Hose Reels.—Patent dated Septemer 9, 1862.—This invention consists of an upright frame of a conical, cylindrical, or other conenient form, made to revolve upon a vertical shaft or spindle, and provided with supporting ooks or brackets for holding the hose, which hooks are arranged in such a manner as to give he latter a spiral direction when wound upon the reel, for the purpose of allowing any water at may be left therein to escape by its own gravity.

Claim.—A hose reel embracing the combination, with a frame of conical, cylindrical, or ther convenient form, capable of revolution on a vertical spindle, of supporting hooks or

rackets arranged spirally, substantially as herein shown and described.

No. 36,439.—G. M. MOWBRAY, of Titusville, Pa., assignor to Himself and BRADHURST CHIEFFELIN, of New York, N. Y.-Improved Naval Defensive Armor.-Patent dated Sepmber 9, 1862.—This invention consists in constructing the framing of vessels with timbers sterposed between and alternating with the ribs, being stepped into the keelson and extendg upward in an oblique direction to points above the bilge where the armor is to commence,
and where they protrude beyond the outside of the ribs to form a ledge for the support of the
mor plates D D. Between, under, and above the plates D are arranged a series of plates a , in connexion with a series of blocks of wood, inside of which and the timbers is applied a

ning of iron plate, to which the inner portions of the plates a are secured by angle pieces.

Claim.—First, so constructing the framing of the vessel with timbers C C, or their equivents, projecting outward beyond the ribs A A, and so applying the armor plates in combistion with such timbers, or equivalents, that the weight of the armor is supported to such them as may be desirable by the said timbers, or equivalents, and by them transmitted to the

relson of the vessel, substantially as herein specified.

Second, the combination of the plates D D and a, the blocks c c and d, the angle pieces c, or their equivalents, and the lining f, the whole constructed and applied, in combination ith the ribs A A, substantially as herein specified.

No. 36,440.—H. M. PAINE, of Worcester, Mass., assignor to E. M. ARCHIBALD, of New ork, N. Y .- Improvement in Steam Generators .- Patent dated September 9, 1862 .- The sture of this invention is explained by the claim; the object being to generate steam for the

reposes of motive power under such conditions as to enable a boiler to be dispensed with, ad economy of fuel and space obtained.

Claim.—The process of generating and superheating steam by injecting water in a cominuted state into superheated steam, by contact with which its particles are converted into eam, and afterwards permitting the circulation of the steam so obtained through a heated

amber to be superheated, substantially as herein specified.

No. 36,441.—S. A. SKINNER, M. D., of Bristol, Vt., assignor to Himself and SILAS Rug-Es, of Fitchburg, Mass.—Improved Bedstead, Lounge, and Chair.—Patent dated Septemr 9, 1362.—This device is composed of a rectangular frame covered with wire netting, and ovided with folding legs in connexion with a sliding and folding back, arranged and apied to the frame in such a manner that it may be adjusted on the frame to form a bedstead, ange, or chair, as desired.

a.m.—The frame A, provided with the folding legs B, in combination with the sliding b. t. connected to the frame A, through the medium of the slides E, fitted in the longituif groove e in the outer sides of the side pieces a a of the frame A and the pivoted racks

a. arranged as and for the purpose herein set forth.

No. 35,442.—John Strion, of New York, N. Y., assignor to Himself and James Gregory, the same place.—Lapron of Combination of Sofa and Vessel Berth.—Patent dated Septem-19, 1-62.—This accessor of the ists in combining with a fixed frame a vertically sliding st, and berth frame and east and berth bottoms, in such a manner that the seat may be adily converted into veriles and acc versa. A sofa box is so constructed as to allow the shion to sink into it a form sides and ends for the berth, and is provided with seat-eleva-g doors or supports, by which the cushion is supported when in use for a seat, and raised to higher position when used for a berth. At the back of the seat is arranged a hoisting-ar, in connexion with a shaft, by which the parts may be conveniently raised and operated. Claim.—First, the combination with the fixed frame A of the seat and berth frame E and it, substantially as and for the purpose set forth.

Second, the combination with the sofa box C, constructed as described of the scat-eleva-

g doors or stops d d', substantially as and for the purpose set forth.

Third, the arrangement at the back of the scat, and in the manner described, of the hoistingar, for the purpose set forth.

No. 36,443.—ISAAC CUMMINGS, of Vienna, N. J., assignor to Himself and EUGENE J. POST, of the same place.—Improved Method of Operating Shakers of Threshing Machines.—Patent dated September 9, 1862.—The nature of this invention is explained by the claim.

Claim.—Operating the shaker by a direct connexion with the main shaft of the meter power, independent of the threshing cylinder belt, and detaching the shaker from all working connexion with the threshing cylinder frame.

No. 36,444.—Samuel Barnes, a Rochester, Mich.—Improved Millers' Stone Staff.—Pr ent dated September 16, 1862.—This invention consists in applying to a wooden face a bad of iron or other equally firm and inflexible material, and attaching the same firmly, so as a prevent the wooden face from warping or contracting. The iron back is supported by a factor brace, and in the back is set an ordinary spirit-level, so that, as the staff is passed over a stone for the purpose of indicating the raised spots, the operator can at the same time war tain if the face of the stone or its whole setting is level.

Claim.—The application of a back of iron or other equally firm and inflexible metal mate. or substance to a surface of wood or other porous material capable of holding paint or other coloring matter for the purpose indicated, without warping, expanding, or contracting, w also the application of the spirit-level to such instrument, for the purpose indicated.

No. 36,445.—ALEXANDER BECKERS, of Hoboken, N. J.—Improved Steering Apparatu-Patent dated September 16, 1862.—This invention consists in the employment of a county grooved drum, from which an endless chain or rope passes to two sheaves that connect with the rudder head, in such a manner that the rotation of the conically grooved drum, as it dust upon the endless chain or rope, causes the rudder to be moved in proportion to the different in the peripheries of the respective grooves of the conical drum, and the endless chain or me passes in such a direction around the conical drum that but little power is required to be

the steering wheel under any circumstances.

Claim.—The conical grooved drum and endless rope or chain in combination with

sheaves h and i, connected to the rudder head, as and for the purposes specified.

Also, the screw f, and recess in the wheel c, to tighten the chain c, in the manner species

No. 36,446.—EDWIN BEMENT, of Fostoria, Ohio.—Improvement in Plough Beams.—Prent dated September 16, 1862.—Upon each side of the plough beam is a lateral brace or sisting of a rod secured to the rear of the beam at its downward curve by means of lugs, and secured by nuts. The forward ends of the rods are formed into links, which pass over the lateral extension of the clevis and fit in a recess at either end of the same. The pinupo which the clevis is secured fits in a slot in the beam, so that, when the centre of the shall occupy the rear end of the slot, the draught will be constantly thrown upon the mis

Claim.—The lateral braces C C, attached to the clevis at any point, and to the hinder of downward curve of the beam, or to the standard, by means of the lugs B, or their equality lent, in combination with the slot H and clevis bolt I, all the parts being constructed and are

erating substantially as and for the purpose set forth.

No. 36,447.—EDWIN BEMENT, of Fostoria, Ohio.—Improvement in Plough Powis.—Prent dated September 16, 1862.—This invention is explained by the claim.

Claim.—The ribs B C, both above and below the plough point proper, for the purpose of the point grainst the corners from wearing off or becoming rounded by use, and also to strength the point against a vertical strain and thus preserve it from being broken, as specified.

No. 36,448.—WM. BILLINGHURST and J. REQUA, of Rochester, N. Y.—Improvement Platoon Battery.—Patent dated September 16, 1862.—Upon an iron bed plate, which may're of skeleton form, is arranged a series of barrels, each pivoted to the stock by meas of screw or bolt passing through a shank underneath the barrel. The breech bar is noted in a solid bar and entirely detached from the barrels, and through the bar longitudual. drilled a hole, with branches therefrom, leading to the centres of countersinks opposite to receive the spherical heads of the cartridge cases. The cartridge holder or clar. composed of two wings made of thin sheet-iron, and hinged together and made to classiflanges upon the rear ends of the cartridge cases, in order to securely hold the same distransportation. Between the breech bar and bed plate is a thin metallic rack or guidents. guiding the cartridges into their respective chambers, and serving also to withdraw the ex-

Claim.—First, the combination of the barrels B, operated as described, with the carrier g and breech bar E.

Second, the employment of the cartridge holder or clamp D, constructed substantanta the manner and for the purpose set forth.

Third, the employment or use of the rest or guide W, constructed and operating

tially in the manner and for the purposes specified.

Fourth, the employment of the breech bar E, in combination with the backing place I. when they are arranged and operated so as to automatically throw the hammer U tack

No. 35,449.—WILLIAM BOEKEL, of Philadelphia, Pa.—Improvement in the Application of Soft Metal Packing to Projectiles.—Patent dated September 16, 1852.—Instead of the usual metallic bands or cups upon the projectile, and secured to the same by grooves and projections, the inventor employs cups prepared from any suitable composition of soft metals by first casting the same in the form of slabs of any convenient size, to be afterwards subjected to the action and pressure of rolls until reduced to the required thickness. From the metal thus prepared are cut circular blanks which, by a successive action of punches and dies, are formed into cups of the shape and size required, and are then drawn upon the iron projectiles. The projectiles are then subjected to the action of a drawing plate or die, by which the inner surface of the cup is thoroughly embodied with the iron, and thus is made to resist the torsional strain exerted upon the cups by the centrifugal motion imparted by the rifle grooves in firing.

Claim.—First, the described method of producing and attaching the soft metal expanding

cup or packing band to the projectile.

Second, the described process of reducing the diameter of metallic expanding cups or bands to the exact dimensions required, and embodying the same with the iron by the application of a draw plate, or its equivalent, substantially in the manner and for the purpose specified.

No. 36,450.—Job Brown, of Lawn Ridge, Ill.—Improvement in Device for Preventing Saine from Rooting.—Patent dated September 16, 1862.—This device consists of a pendant formed of a piece of wire, bent in the form of a spiral spring, and having its ends curved, so as to meet and form a clasp to grasp the partition within the nose or snout of swine, the object being to obviate the necessity of puncturing or boring the snout.

Claim.—A spring pendant constructed and applied to the nose or snout of swine, substan-

tially as and for the purpose herein set forth.

No. 36,451.—C. W. CAHOON, of Portland, Maine.—Improvement in Lamps.—Patent dated September 16, 1862.—This invention consists in the employment of a grooved clamp support for the chimney holder of a lamp, so constructed that when it is applied to the rim of the lamp head and clamped thereto, the inutual engagement of the rim and groove prevents the upward or downward movement of the support without other means of fastening than the clamp support.

Claim.—A grooved clamp support for a vibrating chimney holder, substantially as set

Also, the combination of a grooved clamp support with a rimmed lamp head, substantially as set forth.

No. 36,452.—M. L. CALLENDER, of New York, N. Y.—Improvement in Vapor Burners.—Patent dated September 16, 1862.—This invention relates to burners for the vaporization and combustion of the vapors of the heavier volatile hydrocarbon liquids, such as napliths or camphene, and its object is to provide for the more effectual vaporization of the liquid by heat relow the arrival of the vapors at the mouth of the burner, and for the more perfect combustion of the vapor. Within the supply pipe is a smaller pipe, provided with a metal rod, which is caused to close the aperture leading to the burner, but when the burner is heated the relevaporal and causes the valve to open. Attached to the body of the burner are open wings arranged one on each side of the two opposite sides of the mouths, and having their inter and outer edges corrugated and their upper edges inclined toward each other, to facilitate the passage of air to the flame.

Claim.-First, constructing the side wings F with open centres for the admission of air,

. berein shown and described.

Second, the combination with the pipe D of the self-acting valve rod d, as herein shown and described.

Third, the construction of the wings E E with the upper edges of their inner faces bent or ribbed, so as to form spaces or interstices for the admission of air to the flame, substantially as herein shown and described.

No. 36,453.—THEODORE CLOUGH, of New York, N. Y.—Improvement in Preparing Petroleum for the Manufacture of Illuminating Gas.—Patent dated September 16, 1862.—This invention consists in placing crude petroleum in a common still suitable for distilling hydrocurbon oils and applying heat thereto, gradually raising the temperature until the more volation and applying heat thereto, gradually raising the temperature until the more volation and light oil vapors of a boiling point of 600° Fabrenheit are driven off from the mass acted upon, and until the remainder in the still, which is about thirty to thirty-five per cent. of the original charge, becomes of a specific gravity about 28° to 30° Baumè, at which point the distillation is stopped, and the still having cooled down, the remaining undistilled oil is drawn off.

Claim.—As a new manufacture, the gas-making eil obtained by treating petroleum substantially as described.

No. 36,454.—C. O. CROSBY and HENRY KELLOGG, of New Haven, Conn.—Improved Manufacture of Tape Trimmings.—Patent dated September 16, 1862.—This invention is ex-

plained by the claim and engraving.

Claim.—As a new article of manufacture the finished tape trimming folded and stitched by machinery, and constituted substantially as herein described—that is to say, of a continuous length of tape in folds, presenting a succession of points and held as folded by a continuous line or several lines of stitches, making a continuous seam or seams along the length of the finished article.

No. 36,455.—R. E. DEANE, of New York, N. Y.—Impresement in Cooking Stores.—Pazzi dated September 16, 1862.—The object of this invention is to provide a means for prevening the sagging down, by its own weight, of that part of the top of the range immediately over

the fire to the heat of which it is continually exposed.

Claim.—The combination with the hot plate of a cross-bar, having a channel cast therewill en the under side thereof, so as to be interposed between the fire and the hot plate of when said bar forms a part, and provided with induction and eduction pipes, as specified, for burpose of circulating and maintaining water within the hot plate, and heating the wall while preserving the said plate from injury by the heat.

Also, the form and arrangement of a channel or channels, as set forth, with a three-over

flange, or the equivalent thereof, substantially as described.

No. 36,456.—G. F. Degelow, of Bethlehem, Pa.—For a Process of Imitating the Gras of Wood, &c.—Patent dated September 16, 1862.—This invention is explained by the care Claim.—The above described mode of imitating the peculiar porous appearance of the grain of various woods on paper, leather, oil-cloth, wood, metal, or other suitable materal by first covering the material with a coat or coats of color, and then, preparatory to the usubrocess of graining and varnishing, imprinting on the colored surface numerous small dentations, resembling the pores of the wood to be imitated, by means of a suitable instrument provided with a number of sharp points and edges, all as above set forth.

No. 36,457.—F. A. DE MEY, of New York, N. Y.—Improvement in Mounting Field Ornance.—Patent dated September 16, 1862.—This invention consists of a breech-lost cannon, mounted upon a revolving platform, which latter is provided with an iron sheld the form of a partial dome, and having opposite the muzzle of the gun an opening provide with a hinged shield. The revolving platform is connected with the carriage platform three the intervention of horizontal springs so arranged as to allow, in connexion with the boxist or slides, a sufficient horizontal motion of the one relatively with the other in every direct to provide for the recoil.

Claim.—First, the combination of a gun, front shield, revolving table, and support carriage, with a provision for the recoil of the gun when fired in any direction thereon whole being arranged to operate as artillery, either in a state of rest or of motion, which is the state of the state o

necessary alteration, substantially as described.

Second, the employment in a carriage for ordnance, substantially of the character ical described, of the slides C D, and of springs controlling the motion thereof, arranged to pate as herein set forth, and this irrespective of the precise construction of the springs.

No. 36,453.—S. F. EMERSON, of Seville, Ohio.—Improved Clothes-Wringing Machine—Patent dated September 16, 1262.—Upon a bar of wood, constituting the base of the mailer is secured a metallic spring, the ends of which are bent upwards so as to form standards the rollers, the latter being journalled in the extremities of the springs, and one roller plane a little higher than the other. To the under side of the base piece are secured two adjusting gripes by which the device is secured to the tub.

gripes by which the device is secured to the tub.

Claim.—Mounting the rollers directly upon the tip of the springs E F, in the manner springed, in combination with the bar A and adjustable gripes G G, the several parts being expression.

structed and arranged substantially as and for the purpose described.

No. 36,459.—WM. F. GOULDING, of Providence, R. I., and FRANK CHENEY, of Hat Conn.—Improvement in Drop Presses.—Patent dated September 16, 1862.—In this matched drop weight or hammer is raised in guides by means of a straight strap of leather, the metal, or other material possessing the requisite friction surface, and made to pass bound the faces of two pulley wheels. In order to prevent any slack in the strap when the hamis down, use is made of a friction block placed against the strap over the cross-best of gallows frame, the degree of friction upon which block is regulated by means of a believer. From each side of the drop-weight project ears, which are made to operate adjusted to the ready adjustment of the height from which the hammer straight insure an immediate ascent to its proper elevation the instant the blow has bestruck.

Claim.—First, the combination of a strap C, either flexible or otherwise, (as distinguished a belt,) or its equivalent, in combination with a pair of friction pulleys D D, subsection

tially as described, for the purposes specified.

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Second, the combination of a friction drag m l with the strap C, or its equivalent, substantially as described.

Third, the combination of the adjustable supporting stop b and the hammer A, substantially

as described.

Fourth, the combination and arrangement of the hammer A with both the adjustable stops a and b, when the latter are combined with each other to arrest the further ascent of the hammer and to sustain it at any given point, substantially as described.

No. 36,460.—ROYAL HANCE, of Piscatonia, Ill.—Improvement in Harvesters.—Patent dated September 16, 1862.—Secured to the outside of the forward end of the draw-bar is a "fulcrum lever," having its rear end supported by a fulcrum wheel, the bearing of which is pivoted to the said lever by means of a crooked shank, so as to adjust itself to the line of draught. Above the fulcrum wheel is a "fulcrum post," to which is pivoted a lever connected to the frame by means of a chain and hook, so that the driver, by raising or depressing the lever, is enabled to elevate or lower the cuttor as desired.

The reel is supported at each end by an adjustable framework, by means of which the reel can be raised or lowered or placed in an oblique position relatively with the cutter-bar. It is secured in any desired position by means of bolts and holes in standards at the sides and

in a curved bar at the outer side.

Claim.—First, the fulcrum lever F, fulcrum wheel F', fulcrum post H, and lever I, in combination with the draw-bar C, machine frame C', and platform frame A, arranged and operating as and for the purpose specified.

operating as and for the purpose specified.

Second, the adjustable frame N N', the standards O O', and curved bar O'', when arranged

as and for the purpose specified.

No. 36,461.—L. T. HAZEN, of Coventry, N. Y.—Improved Mode of Securing Cross-bar and Shafts to Vehicles, &c.—Patent dated September 16, 1862.—This invention consists in constructing the thill irons with sockets, so formed as to receive the cross-bar and shafts and bold them firmly in place by forcing a wedge into the wood, thereby dispensing with bolts and rivets. The clip-iron or cock-eye is cored to receive a rolling socket, made so as to form a shell or matrix, into which the block of the thill iron is fitted. In the clip is also a small reservoir which contains oil for lubricating the socket.

reservoir which contains oil for lubricating the socket.

Claim.—First, encasing the ends of the cross-bar and shafts in the socket thill iron and searing the same with internal wedges, in the manner as and for the purposes herein set forth. Second, the oil-chamber i in the clip-iron F, in combination with the rolling socket I and he shaft or thill iron A, the whole being constructed and operating substantially as herein

pecified.

No. 36,462.—A. A. HIBBERD, of Hermitage, N. Y.— Improvement in Machines for Setting and Upsetting Sauss.—Patent dated September 16, 1862.—This invention consists in the emboyment of two dies in connexion with a guide and clasp, one of the dies being bevelled at me end and the other having a triangular groove, so as to form a point when it is connected with the guide, the object being "to keep the outside of the tooth straight and the edges lush."

Claim.—The dies D and E and their arrangement, substantially as and for the purpose pecified.

No. 36,463.—Thomas Higgins, of Bow, England.—Improved Machine for Filling Diping Clamps in the Manufacture of Matches, Tapers, &c.—Patent dated September 16, 1862.

This invention relates to an arrangement of machinery whereby the splints, tapers, or latches intended to receive on their ends a coating of composition that will ignite by the application of friction may be arranged with facility in clamps ready to undergo what is known the dipping process, by which the phosphorus compound is applied to the tips of the lints, &c.

Claim.—The mechanical means above described for arranging splints, tapers, and matches wallel to each other and discharging them into suitable dipping clamps.

No. 36, 464.—D. A. HOPKINS, of Brooklyn, N. Y.—Improvement in Tiges for Fire-arms.—stent dated September 16, 1862.—This invention consists in providing that part of the gun which the charge is placed with a tige or stem in combination with openings at opposite less of the tige and connecting the rear end of the charge-chamber with the cone or nipple, using the charge to be fired upon opposite sides of the tige at the same instant, whereby bending of the tige which frequently results from firing the charge only upon one side error is prevented.

Free is prevented.

Along the centre of the tige is an opening communicating with the outside thereof by raings near each end, whereby, when the charge is fired, the flame may pass from a point points at or near one end of the charge to a point or points at or near the other end thereof

thout igniting it at the centre.

The charge-chamber which surrounds the tige is provided with small chambers, located, rectively, one at the forward and the other at the rear end, so connected and arranged that rowler they receive shall be burned therein, instead of being driven forward when the rege is fired.

Claim .- First, two or more openings connecting the rear end of the charge with the core. whereby the charge is first fired upon opposite sides of the tige at the same instact, is the

purpose stated.

Second, the passage o, or its equivalent, and the combination thereof with lateral one relocated and connecting therewith, substantially as shown and described, whereby flame may pass from a point or points at or near one end of the charge to a point or points at or we the other end thereof without igniting it at or near the centre, for the purpose set forth

Third, the powder-chambers n and r, located and arranged substantially as shown with

scribed, for the purpose specified.

No. 36, 465.—B. B. HOTCHKISS, of Sharon, Conn.—Improvement in Percussion Fast in Explosive Shells.—Patent dated September 16, 1862.—At the forward end of a project any proper form is fitted a case, within which is placed a ball G. Below the case and water the projectile is another ball II, of similar size and material as G, and the two are conners: through an opening in the case by means of a cloth envelope wrapped tightly around 🛰 balls, so as to keep them together under ordinary circumstances. As the projectice size charged from the cannon, the envelope is torn apart, and the ball G is released and toagainst a wafer placed at the forward end of the case, when the projectile is suddenly exact. by striking an object and the explosion ensues, the flame communicating through the to-

in the case to the contents of the projectile.

Claim.—The weakly connected plunger G and a weight H, so arranged as to step or erifice in the back of the case C until the discharge of the cannon, and so to open "." orifice certainly at the instant of said discharge, and no longer maintain any connex a tween the plunger and the wedge, all substantially as and for the purpose herein set local

No. 36,466.—F. W. Howe, of Providence, R. I.—Improvement in Breech-loading for arms.—Patent dated September 16, 1862.—This invention consists in providing the resistance. open end of the barrel through which the charge is inserted, with a thin projecting ferror: combination with a movable breech, the face of which is formed with a cavity that the and embraces the rear end of the said forrule, by which means the breech is effectually dethe expansion of the ferrule by the force of the explosion preventing the escape of the game --

Combined with the movable breech, and a catch for holding it in place when closely is projection on the back of the hammer, for the purpose of preventing the hammer from le 3 lifted from the nipple when the breech is not perfectly closed, and for preventing the breech is not perfectly closed, and for preventing the breech is not perfectly closed, and for preventing the breech is not perfectly closed, and for preventing the breech is not perfectly closed, and for preventing the breech is not perfectly closed, and for preventing the breech is not perfectly closed, and for preventing the breech is not perfectly closed.

from being closed when the hammer is either at half or full cock.

Claim.—The projecting ferrule at the rear open end of the barrel, substantially as described. combination with the movable breech, or the equivalent thereof, having a cavity in its to fit over and enclose the said ferrule, substantially as and for the purpose specified.

Also, in combination with the movable breech, and the catch for securing it when & the sector or equivalent projection on the cock or hammer, which prevents the hammer being lifted from the nipple when the breech is not entirely closed, and which prevents breech from being closed when the hammer is at half or full cock, substantially as and w the purpose described.

No. 36,467.—Samuel Huson, of Jacksonville, N. Y.—Improvement in Grain and Series Separators.—Patent dated September 16, 1862.—This invention consists in the empty of the series of the of a series of arms provided at their-lower ends with pickers, and pivoted at about the of their length to a multiplied crank. The upper ends of the arms are attached to red at are hinged to the upper cross-piece of the frame, so that as the crank is turned a "house elliptical movement" is imparted to the pickers to agitate the straw.

Claim.—Attaching the upper ends of the vertical arms E of a grain and straw series to the rods F, and their centres to the cranks B, for the purpose of transmitting to the particular alliptical movement in the manner and for the nurrous described.

G a horizontal elliptical movement, in the manner and for the purpose described.

No. 36,468.—WILLIAM KINGSLEY, of New York, N. Y.—Improvement in Igniting Explore Shells —Patent dated September 16, 1862.—This invention consists in making shells ": tube, the bore of which passes through from the rear to the fuze in front, so that the inproduced by the explosion of the charge of powder shall pass through to the fuze in it and insure its ignition.

Claim.—Making fuze shells with a tube or passage from the rear end to the fuze in

substantially as and for the purposes specified.

No. 36,469.—J. K. LEEDY, of Bloomington, Ill.—Improved Sugar Evaporator.—Pure dated September 16, 1862.—This invention consists of an apparatus for evaporating serijuice, combined with a still for making alcohol from the washings, scum, and waste so rine matters. Above are two tanks, one for holding the fresh juice, and the other for her water for supplying the steam boilers which supply steam for evaporating. The collection tank also serves as the cooling tub for the worm of the still. The walls of the fire-bot flues are hollow and form the steam boilers. The evaporating pans are arranged so that the steam boilers. side will be kept very hot, whilst the other by means of a cold-air flue is kept at a low conver-

sture to cause the steam to rise as the boiling juice is thrown against it. After the juice thickens, it is caused to flow through a gutter in the upper side of a steam pipe, said steam pipe being coiled spirally around the still. The distillation is effected by steam.

Claim.—First, the water reservoir 1 and sorghum reservoir 2, constructed and arranged

substantially in the manner and for the purposes specified.

Second, the construction and arrangement of the scum condensing pipes 9 for collecting the scum at the edge of the boiling pans 4 and 5, substantially as herein specified.

Third, the construction and arrangement of the scum condensing shield pipes C for shield-

ing pipes 9 from the action of the fire, substantially as herein set forth.

Fourth, the construction and arrangement of the water or steam boilers A and the fire flues 8, operating substantially as hereinbefore specified.

Fifth, the channelled steam pipe 6, with or without the "pitch-offs" W, operating substan-

tially as herein set forth.

Sixth, the combination and arrangement of reservoir 1, pipe J, stop-cock R, stop-cock O, and pipe C and stop-cock P, operating as set forth, for cleaning the steam heater 3 and boiling pans 4 and 5, and pipe 6.

Seventh, the combination of the still 7 with the pipe 6, when operating substantially in

the manner and for the purposes hereinbefore set forth.

No. 36,470.—DAVID MAYDOLE, of Norwich, N. Y.—Improved Skate Fastening.—Patent dated September 16, 1862.—At the back part of the heel plate of the skate is a hook which is designed to catch over a bar attached to the heel of the boot or shoe to form a heel fastening, and through the sole plate of the skate passes a T-shaped bolt adapted to be turned in the slot of a plate attached to the sole of a boot or shoe to form a fastening for the toe, for the purpose of securing a skate to the foot.

Claim.—First, the hook F and plate G employed in the manner described, in combination with a T or hook-shaped sole fastening, operated by a lever J or J', substantially as set

Second, the T-shaped bolt I, sole plate H, and lever J', in combination with the pins or screws & A', or their equivalents, and ridge n, when arranged to operate in the manner and for the purpose set forth.

No. 36,471.—HUGH McCLINTEN, of Morrow County, Ohio.—Improved Apparatus for Evoporating and Defecating Sorghum Juice.—Patent dated September 16, 1862.—This apparatus is composed of two pans, the lower edge of one of which is level with the upper edge of the other, the latter being divided into several compartments. The upper pan is provided with a faucet covered by a strainer and leading to a receiver in the lower pan, from which receiver extend a number of pipes to a compartment at the other end of the lower pan. Through these pipes the boiling sorghum passes, thus causing a rapid evaporation thereof after it is reduced to a certain consistency without danger of scorching the sirup or allowing it to mix with the raw juice that covers the pipes.

Claim .- The aforesaid apparatus for evaporating and defecating the juice of sorghum, consisting of said pans, strainers, faucets, pipes or tubes, and compartments, as combined in

the manner aforesaid.

No. 36,472.—CHARLES MCINTIRE, of Easton, Pa.—Improvement in Culverts.—Patent lated September 16, 1862.—This invention consists in forming the lower half or section of a ulvert of iron provided at each upper end with a projecting rectangular flange which rests the point string pieces supported upon piles. Upon this flange is built an arch of stone or brick orming the upper section of the culvert.

Claim.—In the construction of culverts to be used in water and quicksands, the combination of the upper arch of brick or stone with the lower arch of iron, when the latter is constructed with the flanges B and C, the flange B being constructed to suspend the lower rich upon piles, stringers, or their equivalents, and the flange C as a base support for the

pper arch of brick or stone, in the manner and for the purpose herein described.

No. 3d,473.—John McKenna, of Pittsburg, Pa., assignor to Himself, A. and T. Ickenna, of the same place.—Improvement in Faucets.—Patent dated September 16, 62.—This faucet is constructed with a longitudinal division in the shank so as to make we separate and distinct ways leading through the key to the bottom of the barrel in which he key turns, and arranged in relation to each other and to the key so that when the faucet driven into a cask containing ale or other malt liquors that generate gas, and a pressure created thereby upon the liquid, then both of the ways will act as openings for the fluid to ass through into the same vessel; and when the liquid becomes flat, and requires air to nable it to run, one of the ways acts as an air vent to allow the liquid to be drawn off ithout the necessity of admitting air to the barrel in any other way.

*Claim.—A faucet having a division in the shank, forming separate and distinct ways, with

eir outlets below the shank, and enabling the fluid to pass through both into the same essel, or one to act as a fluid way and the other as an air vent, as occasion may require it,

s berein set forth.

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Also, combining with the two-way shanks L the chamber E, with the cut-off at its bottom, arranged below the line of the shank, for the purpose as hereinbefore stated.

No. 36,474.—S. G. MORRISON, of Williamsport, Pa.—Improved Lining for Coal-Oil Casks. Patent dated September 16, 1862.—This invention consists in saturating the wood of vessels or barrels designed to contain hydro-carbon oils with soap in a melted or heated state, and coating the interior of the vessels with a thin covering of hardened soap.

Claim.—The application of soap, substantially as and for the purpose specified.

No. 36,475.—JOHN NEFF, of Prattsburg, N. Y.—Improvement in Machines for Making Horseshoes.—Patent dated September 16, 1862.—The object of this invention is to combine in a single and compact device all the elements and conveniences necessary in bending creasing, punching, and caulking horseshoes so that they can be formed at the arril with the ordinary smiths' tools.

Claim.—The cam lever M with its cam b, in combination with the notch L, provided with

an inclined bottom a, arranged substantially as herein set forth.

Also, the device for forming horseshoes, consisting of the block A provided with a curvel guide D, creaser E, punch G, openings I K, inclined notch L, and cam lever M, the way arranged, combined and operating substantially as and for the purposes herein specified.

No. 36,476.—G. W. PARROTT, of Lynn, Mass.—Improved Machine for Nailing on the Select of Boots and Shoes.—Patent dated September 16, 1862.—This machine is designed for nailing the soles of boots and shoes to the upper leather, the nails being driven through and clinched down on a metal-plated last, and is more particularly applicable to thin-soled boots or sbors. Reference to the specification and drawings will be necessary for an understanding of the construction and operation of the machine.

Claim.—First, the vibrating block K for cutting off the nail, when the block is hung on u eccentric m3, by which it is raised to relieve the pressure on the shoe, whilst the shoe is being

fed along under it, substantially in the manner set forth.

Second, inclining the nail rod or strip t to the block or cutter K, to cut the nail tapering. turning over the strip after each cut to present the nail to be driven with its point down substantially in the manner specified.

Third, the clamps r, and the parts connected therewith for feeding forward the strip t, 2 combination with the mechanism for revolving the said strip, substantially as described.

Fourth, the sliding block F, pin 12 and grooved cylinder I, for revolving the strip (, sa) stantially as set forth.

Fifth, the adjustable braces k and u, for setting the nail rod at any required inclination uthe block or cutter K.

Sixth, the mechanism substantially as described for feeding the shoe and turning it remains

to place the row of nails around the heel and toe. Seventh, adjusting the lever g3, so that the dog i3 on it shall strike the head of the d3, or other stop, at part of the vibration of the lever, and thereby vary the feed, to make \bowtie spaces between the nails different along the sides of the shoe and around the heel and we

Eight, placing the cog wheel y? eccentric to the disk T, so that it shall engage with the rat

w2 or x2, which may be on the upper side, substantially as specified.

Ninth, the plate g2 applied to the sole of the shoe, in the manner and for the purpose spec-

No. 36,477 .- J. N. PEASE, of Harmony, N. Y .- Improvement in Horse-powers .- Paters dated September 16, 1862.—This invention consists in the employment of a stationary ward which may be toothed or provided with sunken gear, and used in connexion with a redial travelling frame, in which is placed a pinion that gears into the stationary wheel, model being communicated from the pinion to the shaft from which the power is taken by mean of pulleys and a belt or rope.

Claim.—The stationary wheel A in combination with the radial travelling frame H, prov. id with the vertical shaft I, which is connected by gearing with the wheel A, so as to communicate by the travelling of frame H, motion to the central shaft D, by the rope or belt K, which

tially as and for the purpose set forth.

Further, the double sunken gear a a' or equivalent teeth or clogs in the peripher of the wheel A, in combination with double pinion C C' on shaft I, when said parts are arranged to shown and used in connexion with the travelling frame H, and central shaft D, as and let the purpose specified.

No. 36,478.—C. H. PHELPS, of New York, N. Y.—Improved Can or Tank for Coel Od. Patent dated September 16, 1862.—This apparatus consists of a sheet-metal box fitted surg! within a wooden case and having a metal socket secured to the lower part of one of its in the This socket has a circular opening at its centre provided with an internal screw, in which inserted a screw plug for containing a faucet provided with a spigot. The barrel is faucet has two screws on its external surface, one at its outer and the other at its inner the so as to screw into the plug, and is so arranged that when in use the spigot projects from

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case, but when not in use it may be secured within the case out of the way, so as to admit of the cases being packed close together for transportation without endangering the faucets.

Claim.—First, a sheet-metal can or receptacle, provided with a faucet inserted in a screw

plug, for the purpose specified.

Second, the constructing of the faucet with two screws, substantially as shown, when used in combination with the screw plug, as and for the purpose herein described.

No. 36.479 .- F. A. PRATT, of Hartford, Conn. - Improved Tool Rest for Turning Lathes .-Patent dated September 16, 1862.—This invention relates to that part of the slide rest of a turn ing lathe which supports the clamp in which the cutting tool is held, and which by an adjustment for vertical movement permits the height of the tool's point to be varied as may be required, and operated as explained by the claim.

Claim.—The combination with the feed carriage of a turning lathe of a vertically movable tool clamp carrier, a vertical guide so arranged as to confine the movements of all parts of the carrier in perpendicular lines, and an adjustment screw, independent of the tool clamp, for moving the carrier, substantially in the manner and for the purpose hereinbefore set forth.

Also, the combination with the movable tool clamp carrier, its described vertical guide and its independent adjusting screw of the set screw L, so arranged as to clamp the carrier in its guide, substantially as hereinbefore described for the purpose set forth.

No. 36,480.—H. W. PUTNAM, of Cleveland, Ohio.—Improved Clothes Wringer.—Patent dated September 16, 1862.—This invention is explained by the claim.

Claim.—Casting around the body of the iron shaft an alloy of metal, with collars substantially as described, this alloy covering being interposed between the iron shaft and the rubber covering, for the purpose of protecting the iron shaft from the corrosive action of the sulphur contained in the vulcanized rubber, as herein specified.

No. 36,481.—ABRAHAM QUINN, of New York, N. Y.—Improvement in Apparatus for Distilling Petroleum and Other Oils.—Patent dated September 16, 1862.—This invention is designed as an improvement upon an apparatus for which a patent was granted to the said Quinn on April 9, 1861, together with additional improvements, and consists in an arrangement of devices by which, first, the still is continuously supplied with oil freed from water or explosive vapors during the process of distillation; second, a continuous stream of oil is caused to run from separate condensing chambers, after having been completely rectified and agitated, in contact with chemicals, while in the process of distilling and condensing; third, distilling oils at the lowest heat necessary to convert them into vapor, and thus lessening the quantity of permanent gas produced in the distilling process; fourth, causing the vapor of the heavier oils on their way towards the condensing apparatus to meet the crude oils on their way to the still, and so to heat the latter to such an extent as to extract the vapor from the lighter oils; and fifth, extracting from crude petroleum or coal oil all of the products which are best suited for illuminating purposes, and leaving a more unctuous oil for lubricating or other purposes.

Claim.—First, the still-neck B constructed with dams y y, and having pipes b and y', and

applied in combination with such dams, substantially as herein specified.

Second, the basins P P' placed within the chambers C C' of the rectifiers, and in combination with the pipes Q Q', substantially as herein specified.

Third, the perforated disphragms p p p' p' p' p' p' p' arranged within the rectifiers, substantially as and for the purpose herein described.

Fourth, the arrangement of several rectifiers, in combination with each other, with the still retort, and with the device or apparatus for feeding the crude oil, in such manner that the vapors of the heavier oils on their way to the condensing apparatus meet the crude oil on its way toward the still retort, and heat the latter oil to such an extent as to extract the vapor of the more volatile portions of it before it arrives at the retort of the still, substantially as herein specified.

Fifth, the purifier E, arranged in relation to the rectifiers, the feeding apparatus, and the worm E', substantially as and for the purpose herein specified.

Sixth, the oil receiver H and chemical tank I, and their pipes S U, funnel O, siphon N, cocks j k, and strainers T T, the whole combined to operate substantially as herein specified.

No. 36,482.—BARTON RICKETSON, of New Bedford, Mass.—Improvement in Rigging, and in he Spars of Ships and other Navigable Vessels.—Patent dated September 16, 1862.—The obect of this invention is to reduce the cost of the rig, spars, and sails of vessels, and to obtain ncreased speed by providing for the carrying of a greater area of sail, to facilitate the working of the sails, whereby a vessel of a given tonnage can be worked by fewer hands. The yards are fitted around the masts in such a manner as to allow their axes to intersect the axis of the mast, one arm of each being longer than the other, so as to enable it to carry a larger area of all on one side of or abaft the mast, the same being separate from the portion on the other ide or forward of it.

Claim.—First, the construction of the yards to fit around the mast, with a movable checkiece b on one or both sides, substantially as and for the purpose herein specified.

Second, so applying the yards which fit around the mast that they also slide up and down hereon, substantially as herein specified. Digitized by GOOGLE Third, providing the yards with jackstays, constructed as herein specified.

Fourth, the attachment of the foot ropes to the yards by means of rigid hangers p p. 50 applied as to keep the said ropes outside of and out of contact with the shrouds, substantially wherein specified.

Fifth, the travelling back and head stays x y, applied and operating in combination with yards fitted over and around the mast, substantially as and for the purpose herein set forth. Sixth, the combination of the revolving stays 29 29 and outriggers N N, applied to the mast.

Sixth, the combination of the revolving stays 29 29 and outriggers N N, applied to the mast and in relation to the yards fitted around the mast, substantially as and for the purpose bear specified.

No. 36,483.—Barton Ricketson, of New Bedford, Mass.—Improved Sails for Ships and other Navigable Vessels.—Patent dated September 16, 1862.—This invention relates to tare and aft sails and to square-sails, which are divided vertically to allow the yards to be arranged to turn upon the mast with their axes in the same plane with the axis of the mast. To the macrivertical edges of the sail or sails are attached metal bows, which slide freely up and down upon iron rods attached to the mast. To the leaches of the inner sails are attached studies, or other sails, by means of metal slides, fitted so as to slide up and down on the leaches. The lower and outer corners of the sails are provided with a metal bar, having at their love.

The lower and outer corners of the sails are provided with a metal bar, having at their lower ends an eye to form the cringle of the sail, and another eye for the attachment of the lower pope, and extending up the side of the sail, where it is provided with a cavity for the reception of the leach of the sail, for the purpose of protecting the lower portion of the sail from the

chafing action of the metal slides.

Claim.—First, the attachment of topsails and courses to masts by means of rods Q Q at metal slide bows P or slides T T, constructed and applied substantially as herein specified. Second, the attachment of sails or portions of sails to each other by means of slides T T. *

Second, the attachment of sails or portions of sails to each other by means of slides 1 1.80 cured to one, and fitted to slide up and down the leach of the other, substantially as and it the purpose herein specified.

Third, fitting the lower and outer portions of a sail with a metal bar X, constructed sti-

stantially as herein specified.

No. 36,484.—A. ROBINSON, of New York, N. Y.—Improvement in Fabrics for Rechar-Patent dated September 16, 1862.—This invention consists in the employment of paper of are suitable kind cut into strips of a proper width and twisted or folded in the form of twine or combined are then woven into a fabric having a warp and a filling or west of the same material or having one of the parts made of twine or cords of hemp, cotton, or other material. The material when applied is covered with a coating of any suitable cement.

Claim.—A rooting fabric made of woven strips of paper, or strips of paper and twine works

together, and cement, substantially as herein shown and described.

No. 36,485.—G. SANFORD and J. E. MALLORY, of New York, N. Y.—Improvement a Machinery for Breaking and Cleaning Flax and Hemp.—Patent dated September 16, 1822—This invention consists in the employment of one or more pairs of griping, fluted rollers, if which the material to be operated upon is fed in at one side so that the woody part is backed by a crushing action, and the broken fragments loosened and separated by a rubbing action of the flutes, alternately in opposite directions and equally upon both sides of the buck which latter is then delivered on the opposite side of the machine.

Claim.—The mode of operation, substantially as described, of one or more pairs of the rollers for breaking and cleaning flax, hemp, and other like fibre-yielding plants, which gripe the far or other plant a reciprocating rotary motion alternately in opposite directions, the motion of direction being greater than in the opposite direction, substantially as and for the particular or other plant a reciprocating rotary motion alternately in opposite directions, the motion of direction being greater than in the opposite direction, substantially as and for the particular direction being greater than in the opposite direction, substantially as and for the particular direction being greater than in the opposite direction, substantially as and for the particular direction being greater than in the opposite direction.

pose described.

No. 36,486.—Thaddeus Selleck, of Greenwich, Conn.—Improvement in Traction is Locomotive Engines.—Patent dated September 16, 1862.—This invention is explained by inclaim.

Claim.—The employment of granulated franklinite metal, as a means for producing the tion or adhesion of locomotive-engine wheels on the track, as set forth.

No. 36,487.—James Stimpson, of Baldwinsville, Mass.—Improvement is Journal set Journal Boxes.—Patent dated September 16, 1862.—The lower part of the journal box is constructed with a lubricating chamber which is formed transversely of the box and dividinto two parts. Communicating with the oil chamber is also a vertical chamber at each a few of the lower portion of the box. The journal is provided with a collar or annulus so deposed as to revolve freely through the oil chamber and made tapering from its inner call the periphery so as to cause the lubricating material to flow from each side of the same to cause the surplus lubricating material to pass through the entire length of the box.

Claim —The above described application of an oil an include a large of a part of the large.

Claim.—The above described application of an oil or lubricator chamber C, and an annulus or collar F, or its equivalent, to a journal and its box or bearing surfaces, the same bearing

arranged substantially in manner and so as to operate as set forther

Also, when the journal and its box or bearing surfaces are so made, forming a groove c, to extend diagonally across each of the bearing surfaces, substantially in manner as described and represented, and for the purpose set forth.

Also, the above-described arrangement of the auxiliary or filling chamber o with respect to the main and side chambers f C, the same being productive of advantages, as above set

forth.

No. 35,488.—JOHN TAGLIABUE, of New York, N. Y .- Improved Apparatus for Testing Coal Oil.—Patent dated September 16, 1862.—This apparatus is composed of a case, in the lower part of which is placed a lamp, and at the upper part is supported a vessel for containing water, provided near its upper edge with holes to allow the escape of the water so as to secure a uniform level of the same. Supported within this water-bath is a vessel for containing the oil to be tested, and having a groove near its top, which groove is to be placed opposite the bottom of the holes in the water-bath, for determining the height of the oil in the same, so that it will correspond with the level of the water in the bath. In the upper part of the oil vessel is a glass tube supported by means of a wire attached to pieces of cork as non-conductors, on either side, which tube is provided with a wick. The explosiveness of the oils is tested by lighting the wick in the oil vessel, and at the same time heating the

Claim.—First, the employment of the holes c c in the water-bath C, in connexion with the

mark d for adjusting the height of the oil in D, for the purpose set forth.

Second, the employment of the glass capillary wick-tube H, for the purpose above de-

Third, supporting the wick-tube H by means of a poor conductor, for the purpose of preventing the transmission of heat from the flame M to the oil in D, substantially as herein described.

No. 36,489.-J. N. WALKER, of Cincinnati, Ohio.-Improvement in Railroad Car Brakes. Patent dated September 16, 1862.—This invention consists in the employment of a vibrating hanger embracing an endless screw which engages with a wheel between two friction flanges regulated by a double set screw, which may be thrown in and out of gear by a vibrating spring lever operated by an adjustable ball upon a cord extending to a point within reach of the engineer of the train, so that each brake will be under his control, and that the brakes may be applied to any one car or to the whole train when desired, without the necessity of employing brakemen for each car.

Claim. - First, the hanger II, shaft I operating upon the universal joint J, and wheel K,

combined with the endless screw H, in manner and for the purpose herein described.

Second, the worm wheel K, combined with its two flanges L L and the double set screw

M, in manner and for the purpose herein described.

Third, the combination of the lever P, constructed with a hole and slot in its upper end, with the cord R R, adjustable ball Q, spring S, and connecting lever O, in the manner herein described.

Fourth, the construction and arrangement of the hanger H, with its projecting arms embracing the screw F upon the axle, and in vibration therewith, and with the foregoing claims, in manner and for the purpose herein described.

No. 36,490.—ALLEN WALTON, of Philadelphia, Pa.—Improved Bung for Oil Casks.—Patent dated September 16, 1862.—This stopper consists of a screw tube provided with a flange fitting in a recess on the outside of the barrel, the tube being secured to the barrel by a nut on the inside. Fitted within the tube is a metal plug having a many-sided head, and on its body three projections, the edges of which formed inclined planes arranged to bear against projections on the inside of the tube. Between the head of the plug and the flange of the screwtabe is interposed a washer of leather, so that when the plug is turned by a key the inclined edges and projection cause a perfectly tight joint to be made.

Claim.—In combination with the stave of a coal oil cask the screw tube B, with its flange the screw plug D, and its head d, and the intervening washer m, the whole being con-

structed and applied to the stave as set forth for the purpose specified.

No. 36,491.—W. M. WARREN, of Watertown, Conn.—Improved Foot Press.—Patent dated September 16, 1862.—This invention consists in the combination of a weighted pendulous foot-lever and toggle-joint, with a punch or die so arranged that the beginning of the downward motion is very rapid, but gradually diminishes in rapidity as it approaches the working point, until at the moment of contact it moves very slowly but with great force, which is further increased by means of the weight.

Claim.—The combination of a weighted pendulous foot-lever, toggle-joint, and slide or die,

as hereinbefore set forth.

No. 36,492.—W. H. WILLARD, of Cleveland, Ohio.—Improved Marine Propeller.—Patent dated September 16, 1862.—This invention consists in making the wheel in sections of one bucket each, and in making the buckets adjustable on the shaft, so that four or less may be used and adjusted on the shaft to balance each other, and in case any one should be secidentally broken, the remainder could be adjusted upon the shaft to balance each other. The hub of the bucket is made to pass over the shaft and has cut in it two or more key seats, w that the same key will fit both the hub and shaft.

Clairs.—First, making the hub in sections corresponding in number to the number of buckets, each bucket and its section of hub being united and forming one piece, as here

described.

Second, so arranging the key seats in the respective sections of the hub, that these may be adjusted in sets of four, three, or two, as and for the purpose herein set forth.

No. 36,493.—L. J. ATWOOD, of Waterbury, Conn., assignor to HOLMES, BOOTH at. HAYDEN, of the same place.—Improvement in Lamps.—Patent dated September 16, 1822— The lower part of the wick-tube is made flaring or bell-mouthed in order that the wick my be entered more easily. The wick tube is provided with projections near the central part of its outer surface in order to hold it with the ratchet cap and exterior shell of the burns: gether. The lower end of the spring that secures the glass chimney is attached directly to the side of the wick-tube without solder, the said spring being guided by the cap that cotains the ratchet for raising or lowering the wick.

Claim.—First, forming the lower end of the wick tube flaring or bell-mouthed in the

manner and for the purpose specified.

Second, the ratchet cap, wick-tube, and exterior shell of the burner, in combination with the projections 6 6 near the middle of the wick tube, and the hell-mouth 5 at the lower to of said wick-tube, whereby the parts are held together as set forth.

Third, fastening the lower end of the spring A against the side of the wick-tube wither solder, in substantially the manner specified.

Fourth, the ratchet cap i with the notch 7 in combination with the wick-tube e and spring is for holding the sald spring from moving sideways, substantially as set forth.

No. 36,494.—Lewis Guild, of Dedham, Mass., assignor to Willard Everett & Co., of the same place.—Improved Rollers for Washing Machines.—Patent dated September 16. 1862.—This invention consists in casting upon an iron shaft a coating of metal of such a nature as will not stain or discolor the clothes when wet, in connexion with collars or had formed thereupon to secure the wooden roll to the shaft, and to protect the ends of the Ind. rubber covering which is afterwards applied to the roll.

Claim.—The coating a and collars C cast on to the shaft A, whereby the journals are protected from rust and the wooden roll B is secured to the shaft, substantially in the manuscript

described.

No. 36,495.—NATHANIEL JONES, of Homer, N. J., assignor to L. I. Mabie, A. J. Mus-LEY, and R. H. MORRIS, of New York, N. Y .- Improvement in Shoe Lasts .- Patent dated September 16, 1862.—This invention consists in so forming the last and cutting the upper that the measurement from the point of the toe to the centre at the back shall be as small at or smaller than the measurement at the lower part of the last, and in drawing in the upper part of the last at the back above the heel, for the purpose of causing the sheet take a bear ing upon the upper part and sides of the foot sufficient to prevent motion of the heel within the shoe, and also preventing the uppers from wrinkling.

Claim.—The sectional shoe last a b c, formed in the manner specified with the measurement at the line 4, as short as the measurement at the line 6, for the purposes and as specified.

No. 36,496.—ELISHA METS, of Rochester, N. Y., assignor to Himself and P. M. Brow-LEY, of the same place.—Improved Extension Table.—Patent dated September 16, 1012-18 the upper and lower surfaces of the longitudinally extension bars is a groove in which are fitted corresponding right-angled projections of a metallic slide which serve to sustain the sections and to act as stops to arrest the motion of the intermediate bars at the proper pension when drawn out. The edges of the levers are formed, respectively, with a rounded tong and groove, one edge being provided with a spring hook that engages with a corresponding catch pin in the edge of the contiguous leaf when the leaves are brought together.

Claim.—The short, metallic slides E E resting in grooves b b on opposite sides of the catension bars, acting as stops, striking one against the other in extending the table; and the device for joining and locking the edges of the leaves and sections, consisting of the rounds tongue and groove h i, catch pin G and spring hook C, the whole arranged together and or

erating substantially as and for the purposes herein set forth.

No. 36, 497.—H. M. WHITMARSH, of Abington, Mass., assignor to Himself, J. O. Nash. and E. D. NASH, of the same place. — Improved Fastenings for Guiter Boots. —Patent dated Sc. tember 16, 1862.—This invention consists of a gore or tongue piece placed in the opening of the shoe over the instep, and having a cord attached to it upon each edge. This cord is most to slide in clamps secured to each edge of the opening in the shoe, so that by pulling down the piece the shoe will become unloosened, and upon pulling up the same the shoe is fastened Claim.—The above-described improved boot fastening, consisting of a gore or tangue piece

B, which is drawn down to expose the opening a b, and is drawn up again to close and secure said opening, and which piece B is held in place by the ends i and clamps c, substantially as specified.

No. 36,493.—G. M. Alsop, of Philadelphia, Pa.—Improvement in Air Springs.—Patent dated September 23, 1862.—This invention consists in combining and arranging an inner cup or vessel having a diaphragm bottom, with an outer box which also has a diaphragm bottom, and which receives the pressure of a weight-sustaining piston, the force of the said piston being exerted upon the air vessel which reacts upon the piston with an elastic force; the said box and air vessel being constructed and arranged in relation to each other in such a manner as to have an open space between them on all sides to contain a fluid which also receives the force of the piston, and consequently reacts upon the air and prevents its escape from the air vessel.

Claim.—First, combining and arranging the air vessel E and diaphragm F with the box A. disphragm B and piston D, the whole being constructed and arranged and operating substan-

tially in the manner and for the purposes set forth.

Second, the combination and arrangement of the buffer H with the air vessel E and plate J, or its equivalent, substantially as described for the purpose specified.

Third, the air vessel I, in combination with the buffer H and air vessel E, substantially as described, for the purpose set forth.

Fourth, the annular projection c and corresponding depression d, in combination with the

flanch a and ring C, substantially as and for the purpose set forth.

No. 36,499.—BENJAMIN ARNOLD, of East Greenwich, R. I.—Improvement in Machines for Making Scine Nets.—Patent dated September 23, 1862.—This invention does not admit of a brief description.

Claim.—First, the arrangement and combination, substantially as described, of the various implements employed to form a loop, viz., the bar M', with its row of guides c c c, and the bars

land o, with their pins.

Second, the bar Y, with its double row of pins, for the purpose of holding the netting, as set forth, and when constructed substantially as described.

Third, the combination of the regulating screw or screws i'', with the levers d'' and V', for

the purpose set forth, when arranged substantially as described.

Fourth, the carriage j with its row of bars a a, in combination with the raceways S S' and the thread carrier a', when arranged substantially as described, for the purpose set forth.

Fifth, a machine constructed and operating substantially as described, for making a net, whether the knot used in tying the meshes be the "seine" or "weaver's" knot, so called, or the knot commonly known as the "square knot."

No. 35,500.—JOSEPH BANKS, of New York, N. Y.—Improvement in Rotary Pumps.—Patent dated September 23, 1862.—This invention relates to that class of rotary pumps in which a piston wheel, containing a series of sliding-spring pistons, moves in the interior of an eccentric case or cylinder, and it consists in the application of keys with dovetailed edges, in combination with the cylinder and with the inner case in such a manner that the said keys catch over the edges of the inner case and hold it firmly in its place, leaving the outer surface of said case perfectly smooth, and in such condition that the same can be turned on a lathe to a true circle and fitted perfectly into the cylinder. With the sliding-spring pistons are combined two spring valves in such a manner as to produce a perfect and yielding joint on the heads of the cylinder. The pistons are constructed of slides, the outer edges of which form semicircular seats for rollers for the purpose of diminishing the friction of the pistons on the inner surface of the cylinder.

Claim.—First, the application of the keys c. provided with dovetailed edges d, in combination with the inner case E and cylinder A. constructed and operating substantially as and for

the purpose shown and described.

Second, the arrangement of the laterally sliding spring valves h, in combination with the

pistons F, as and for the purpose specified.

Third, the arrangement and combination of the slides f, springs e, rollers g, valve h, and piston wheel D, all constructed and operating as and for the purpose set forth.

No. 36,501.—G. C. BIDWELL, of Philadelphia, Pa. - Improvement in Boilers. - Patent dated September 23, 1862.—This device consists of a kettle made with a double bottom, a space being left between the two bottoms for the introduction of water or steam. At one side is a tube for supplying water to the space between the bottoms, and at the other is a tube provided with a safety valve. The whole is designed to be readily adapted to a common stove or fur-

Claim.—The above-described portable steam kettle as a new article of manufacture, the same being a steam-generating double-bottomed kettle provided with a safety valve, substantially in the manner and for the purposes set forth.

No. 36,502.—SAMUEL BLOOD, of Manchester, N. H.—Improvement in Spinning Fliere. Patent dated September 23, 1862.—This invention consists in pivoting the presser arm to a clamp upon the flyer so as to enable the arm to be readily thrown off from its bobbin when the latter is filled, which may be done by one hand of the operator while the other hand is obewise employed. Upon the clamp which sustains the said joint are two projections of gride between which the presser arm rests, so arranged as to allow a slight perpendicular motion the arm on its bobbin, and that, as the bobbin rises and falls, may adapt its delivery to the last of a bobbin and run its roving close to either end. To a projection upon the clamp is secured; and of a spring similar to a watch spring, and coiled around the flyer arm or tube, the others being attached to a slotted segment upon the flier below the clamp. By tightening or losering this spring the tension of the presser may be regulated from time to time as may be required.

Claim.—First, the revolving hinge joint in the arm of a presser, for the purposes described Second, the guides s's for the arm z, constructed substantially as described, whether is

used with or without the spring and jointed arm.

Third, the combination of the jointed presser arm x, the guides s's, the spring i, with it adjustments, and the construction and application of the presser to its flyer, so that the presser shall always be equipoised in the act of winding, substantially and for the purpose berein st forth.

No. 36,503.—O. G. BRADY, of New York, N. Y.—Improvement is Skates.—Patent dark September 23, 1862.—This invention consists in securing the heel part of the skate to a shank of the boot by means of a hooked screw portion, which receives an adjusting rut on or end, and a shank plate, which is secured to the shank of the boot for receiving the hoster end of the screw portion. The forward part of the skate is secured to the sole of the boot means of two laterally adjustable clamps, so arranged as to be readily adapted to soles of the forest widths or shapes.

Claim.—The arrangement of the shank piece D and heel plate B, with the shank of boot, runner A and adjustable tightening hook E, as herein shown and described.

No. 36,504.—JOHN M. BRAHN, of Red Bank, N. J.—Improvement in Machines for ligating Tires.—Patent dated September 23, 1862.—This invention consists in the employment of a clamp and bed plate arranged in such a manner that the heated portion of the tire may be a single manipulation, be firmly secured in position over the bed plate, so that the inmany be hammered down upon the bed plate and contracted as desired.

Claim.—The bed plate A, provided with parallel recesses or slats a a, in combination with the bar F, screw rod D and nut E, or an equivalent means to operate said bar, as and for in

purpose herein set forth.

No. 36,505.—C. C. Brandt, of Norwich, Conn.—Improvement in Revolving Fire-arms.—Patent dated September 23, 1862.—The invention consists in making the length of the rolling cylinder shorter than that of the cartridge case, (so that the front end of a cartidge when in a chamber of the cylinder, protrudes in front of it,) and in combining the said cylinder with the barrel by means of mechanism in such a manner that the cylinder is withd from the butt of the barrel prior to its rotation, sufficiently to permit the end of the cartification, and is moved towards the barrel to close the breach and insert the protruding enter the cartridge into the butt of the barrel, the object being to prevent the escape of sneke of gases at the joint between the cylinder and barrel. The protruding front ends of the cartridges are protected from injury by means of a short revolving cylinder to hold the cartification with a casing in advance of the said cylinder, to receive their projecting combined with the lever which moves a sliding revolving cylinder is a mechanism for volving the said cylinder, so that the lever is caused to move the cylinder longitudinally with barrel, and also to revolve it, for the purpose of relieving the hammer from the strain revolving the cylinder. Combined with the lever which moves a sliding revolving cylinder is moved to a punch, so arranged as to enter a discharged cartridge case when the cylinder is moved to ward, and loosen the said case from its chamber.

Claim.—The combination of a cylinder shorter than the cartridges with the barrel by medicism, in such a manner that the cylinder is drawn from the butt of the barrel prior to its intended is moved toward the barrel to insert the front end of the cartridge therein prior

firing, substantially as set forth.

Also, the combination of a cylinder shorter than the cartridges, with a stationary cashing

protect their protruding front ends, substantially as set forth.

Also, the combination of a turning cylinder with a lever by mechanism, in such manner that the said cylinder is both turned and moved toward and from the butt of the barrel by said lever, substantially as set forth.

Also, the combination of a discharge punch with the lever for moving the cylinder to and from the butt of the barrel so that the cartridge case is loosened from the chamber by

working of said lever, substantially as set forth.

Also, the construction and combination of the discharge punch with the other members the fire-arm, in such a manner that said punch performs the double function of discharge the cartridge cases and of locking the cylinder in its proper position, substantially assetted.

No. 36,506.—John Bruce, of Brooklyn, N. Y.—Improvement in Motice Power.—Pair at dated September 23, 1862.—This invention consists in a combination of mechanical decisions.

employed to communicate continuous or reciprocating motion at any desired speed from a continuously rotating shaft. Upon the said shaft are one or more fixed coupling flanges having a loose pulley upon each side, which pulleys, being alternately coupled to the shaft by an automatic clutch, are caused to draw the alternate ends of one or more levers, by means of which the motion is transmitted to cranks.

Claim.—First, the loose pulleys C c C' c', thrown automatically into and out of gear with the flanges D D' upon the shafts E E', so as to receive intermittent motion by the continuous

rotation of the said shafts, as explained.

Second, the combinations of the shafts E, clutch gearing m N C c D, cords or chains G G', and lever II, operating substantially as and for the purposes specified.

No. 36,507.—G. H. CHRISTIAN, of New York, N. Y.—Penholder.—Patent dated September 23, 1862.—This invention consists in the employment of a sliding weight furnished at one end with a socket to receive the pen, in combination with a weak spring connecting the said weight with the tubular case in such a manner that when the case is held in an upright position the weight overcomes the power of the spring and the pen protrudes beyond the case, ready for use; but if the holder accidentally drops down, the action of the spring causes the weight to recede and draw in the point of the pen to protect it from injury.

Claim.—First, the arrangement and combination of the tubular case A, sliding weight B,

and spring D, constructed and operating substantially as and for the purpose described. Second, the arrangement of the neck g, with inclined shoulders h h' on the connecting rod C, in combination with the guide ring E in the interior of the tubular case A, substantially as

and for the purpose herein specified.

Third, the arrangement of the inclined plane e and recess f, in combination with the pin b, the sliding weight B, and tubular case A, substantially as and for the purpose set forth.

No. 36,508 .- T. S. Cox, of Lafayette, Ind .- Improvement in Sugar-Mills .- Patent dated September 23, 1862.—This machine is composed of two corrugated rollers, the convex portions of one of which works within the concave portions of the other. Opposite the junction of the rollers is arranged an upright pillar provided with circular openings, and having a knife which divides the openings for the purpose of splitting the cane. The cane is fed into these openings through tubes which are provided with interior springs fitted in such a manner as to bring the cane, at about its centre, in contact with the edge of the knife, and is then confined in proper position by a spring attached to the back of the knife, where it is kept until it enters into the grasp of the rollers.

Claim.—First, the combination of the knife in the upright pillar Ee, with tubes E, and their interior springs for conducting the cane upon the knife so as to divide the same as near the centre

as possible, as and for the purpose herein described.

Second, also in combination with the above first claim, the semitubes F and the springs thereto attached back of the splitting knife, as and for the purpose herein described.

Third, also the combination in a sugar-mill of corrugated rollers with the devices specified in the above first and second claims, as and for the purpose herein described.

No. 36,509.—G. DANIELSON, of Boston, Mass.—Improvement in Machines for Upsetting Tires.—Patent dated September 23, 1862.—This invention consists in a method of clamping the tire so that it may be readily adjusted in the machine, and prevented from slipping while being compressed, while at the same time one of the clamps is so arranged as to be capable of being moved under the action of a lever in order to contract the tire. The separate parts of this machine are disclaimed.

Claim .- First, the attaching of the jaws D J to vertical bars E K, one of which passes

through the platform B, and the other through the neck piece of the plates L h.

Second, the arrangement of the jaws D J, bars E K, levers F M, spring I, and pawls G N, in combination with the stationary ledge C on the platform B, the spring P, lever Q, and the sliding neck piece f, provided with the plates L h, through which the bar K passes, and to which the lever M is connected, substantially as and for the purpose herein set forth.

No. 26,510.—Linson De Forrest, of Birmingham, Conn., assignor to Himself and T. B. De Forrest, of the same place.—Improvement in Fastening Hoop Ends in Tabs of Bustles.—Patent dated September 23, 1862.—This invention consists in securing the ends of the bustle hoops to the tabs by means of a peculiarly constructed clasp and eyelet for the purpose of preventing the wear usually occasioned in the tabs by the motion of the ends of the said bustle hoops.

Claim. - Fastening the ends of the bustle hoop in the tabs D' by means of cyclets and

eyelet clasps, substantially as and for the purpose herein described.

No. 36,511.—OSCAR DOOLITTLE, of Danville, N. Y.—Improvement in Ditching Machines.—Patent dated September 23, 1862.—This invention is designed as an improvement upon a machine for which a patent was granted to the said Doolittle on February 12, 1861, and consists in such an arrangement of the elevator in relation to the scoop, that in depressing and elevating the latter the elevator will require no adjustment as to its length. the rear of the adjustable elevator is arranged a stationary one for receiving the dirt from the excavation, each being enclosed in a trough to prevent the dirt from falling off. Connected with the scoop and sliding frame are gauge bars, so arranged and applied as to gauge the depth to be cut at each passage of the machine.

Claim.—First, the combination of the articulating frame M with the elevator I and some

D, as set forth.

Second, the combination of the elevators Q and I, constructed and arranged as sail:

the purpose herein described.

Third, the gauge rods N N', in combination with the sliding frame D', rotating fages E and scoop D, as and for the purpose herein described.

No. 36,512.—John Du Bois, of Williamsport, Pa.—Improvement in Mode of Building Piers for Bridges, &c..—Patent dated September 23, 1862.—In carrying out this inventa long piles are first driven into the bed of the water, and extend above the surface of twater. Within and between these piles is placed a platform, to the upper side of which is firmly secured a rectangular or other shaped box or tube, which is used to encase the pier to be built and made water-tight. This box or tube forms a section of the coffer dam in which is little to the coffer of the coffer dam in which is little to the coffer of the coffer dam in which is little to the coffer of the is laid the stone of the solid pier. As the weight of the stone filling causes the section to settle in the water to near its upper edges, an additional section is attached to the first at so continued until the platform and solid pier rest upon a properly prepared foundation a the bottom or bed of the water.

Claim.—First, building and setting piers by means of a floating coffer dam, substantially as set forth.

Second, the use of the tube, which constitutes the dam, for encasing and strengthening the pier, substantially as set forth.

Third, the guide piles A A, in combination with a floating coffer dam, substantially as all

for the purpose set forth.

No. 36,513.—B. W. FRANKLIN, of New York, N. Y.—Improvement in Securing Todal:
Artificial Base.—Patent dated September 23, 1862.—This invention consists in provider. single and block teeth with a nick or indentation in the ends of the block and sides of is single teeth, with or without a projecting pin, for the purpose of securing a perfect secret attachment to the artificial base without imbedding so as to cover any portion of its "lingual" surface of the block or single teeth with the artificial base.

Claim.—As a new article of manufacture, block and single teeth provided with the dore tailed nick or indentation A in the sides of the single or ends of the block teeth, with a single or ends of the block teeth, with a single or ends of the block teeth.

without the pin B, substantially as set forth and for the purpose specified.

No. 36,514.—H. N. GALLAGHER, of Geneva, N. Y.—Improvement in Water Wall-Patent dated September 23, 1832.—This invention relates to that class of water which are encompassed by a scroll, and in which the water, after acting upon the buckets discharged at both sides of it, or, when the wheel is used in a horizontal position, discharge both at top and bottom; and the invention consists in forming the buckets of radial plants provided with semicircular inner ends, and bodies or sides of a semi-conical form; be buckets being placed in the wheel, which is encompassed by a scroll, all so arranged as a admit of the water being discharged immediately after it has acted upon or against the buckets and without coming in contact with any part of the wheel which will detract the effect or power of the water obtained by its first impact with the buckets.

Claim.—The wheel A, composed of two rims a a, placed at a suitable distance apart at provided with buckets formed of radial plates B, and longitudinal halves C of hollow and the provided with buckets formed of radial plates B.

connected with the rims a a, and a circular plate D on the shaft C' of the wheel, as shown-

connexion with the scroll D', all arranged substantially as herein set forth.

No. 36,515.—Cornelius Godfrey, of Brooklyn, N. Y.—Improvement in Extinguishing Fire in the Holds of Ships, Vessels, &c .- Putent dated September 23, 1862 .- This invent: consists in the employment of a perforated pipe extending down from a reservoir consets with the galley stove for generating steam to any part of the hold in which a fire the chance to take place, so that the steam may be injected into the fire.

Claim.—The application of a pipe or pipes, with a jet or jets, or perforations, placed in the hold or other parts of a vessel, in connexion or combination with steam generated by a

from the use of a galley stove, for the purpose as set forth.

No. 36,516.—RALPH GROW, of Galesburg, Ill.—Improvement in the Manufacture Soap.—Patent dated September 23, 1852.—This invention consists in combining with carmon soft or hard soap naphtha or oils of distillation from petroleum and coaloil, to which my be added any desirable perfume.

Claim.—The use of hydro-carbons, in the manner and for the purpose substantially

described.

No. 36,517.—ELANDER HEATH, of San Francisco, Cal.—Improved Spice Mill.—Parti dated September 23, 1862.—This invention consists in the employment of a cylinder say ported by axles secured to its ends, and so arranged in relation to the same as to cause the axles to revolve eccentrically in their journals, and impart to the cylinder a spiral movements. Upon the inner surface of the cylinder are longitudinal corrugations, and within the cylinder are a number of balls of spherical and poly-sided forms.

Claim.—The construction and combination of the cylinder A, describing a spiral movement, together with the balls and bodies b c, operating substantially and for the purposes

herein set forth.

No. 35,518.—F. C. HEBERHART, of Madison, Ind.—Improved Meat Chopper.—Patent daved September 23, 1862.—This invention relates to that class of machines for chopping ment, in which the knives are elevated by mechanism and allowed to fall by their own weight upon a circular revolving block, and the improvement consists in the novel combination and arrangements of the several parts for rendering the machine more substantial and convenient in its operation, as will be understood from the claim and engraving.

Claim.—The combination and arrangement of the knives c, rotating block B, pipe P, hoop L, cone K, wheel F, and helical wheel N, substantially as described and for the purpose

set forth.

No. 35,519.—John Henfrey, of the United States Army.—Improved Bedstead.—Patent dated September 23, 1852.—This invention consists in forming the rails and legs of the bedstead of metal tubes, the said rails being larger than the other tubular parts for the purpose of giving them greater strength, and also to receive and contain the end rails and legs in transporting the same. The opposite ends of each of the end rails are provided with a right and left screw, having square heads, which fit in recesses in rings of cast-iron, and also in the sheet iron side rails, by means of which the parts are firmly secured together. Attached to the side rails is the sacking, which may be tightened or loosened by turning the end rails. Claim.—First, the side rails of a bedstead so constructed as to receive the end rails and

legs, substantially as described for the purpose of economizing space during transportation.

Second, the end rails of a bedstead constructed with right and left hand screws at opposite ends, in combination with a sacking bottom, or its equivalent, substantially as and for the

purpose above set forth.

No. 36,520.—W. W. Huse, of Brooklyn, N. Y.—Improvement in the Manufacture of Tobacco.—Patent dated September 23, 1862.—The nature and object of this invention are explained by the claim.

Claim.—In the process of impregnating tobacco with the preparation of licorice subjecting the tobacco, after it has been dipped in the liquid preparation of licorice to the pressure of elastic rollers to force the liquor into the tobacco and to discharge the surplus liquor, substantially as described.

No. 36,521.--ALFRED INGALLS, of Independence Iowa.—Improvement in Seeding Machines.—Patent dated September 23, 1862.—The axietree is divided at the centre, and each part is attached rigidly to its respective wheel, so as to turn with it. The axietree passes longitudinally through the seed-box, and is provided at intervals with fins which stirt he seed to prevent it from clogging. The bottom of the hopper is provided with a side, and directly below the openings in the hopper bottom is placed a distributing apron, provided with radial grooves, which serve to spread the seed evenly over the surface of the ground as the machine moves along.

ground as the machine moves along.

Claim.—The revolving axletness B B and pins E, in combination with the hopper C, sider F, distributing apron G, and grooves H, when these parts are arranged and operated

as and for the purpose specified.

No. 36,522.—ALLEN LAPHAM, of Brooklyn, N. Y.—Improved Steam Trap.—Patent dated September 23, 1862.—This invention consists in combining with a steam-engine cyinder a double steam trap for relieving the cylinder of the water of condensation without waste of steam or attendance from the engineer, by means of pipes extending from the owest point of each end of the cylinder and leading to the trap. The latter is composed of metal shell having a steam-tight cap and a partition across its centre, and provided with mannels, valves, and floats, so that as the condensed water is passed through the pipes into the trap the floats are caused to rise and lift the valves in proportion to the accumulated second of water, which is then allowed to pass out of the discharge pipe automatically, without any escape of steam.

Can n - The combination with a steam engine cylinder of a double trap, constructed and

perating substantially as described and for the purpose set forth.

No. 33 523 - T. R. MARKILLE, of Winchester, Ill.—Improved Washing Machine.—Patend dated September 23, 1832.—Within a properly-constructed box is a block C, having a 520 ved or cornigated face, and attached to arms proved at their upper ends to the sides of are box. Opposite to this block or swinging squeezer is a perforated squeezer F having a smooth surface, and pivoted at its upper ends to a lever which is connected by another lever

and arm to the swinging block. The squeezer F is attached at its lower end to a brace or stay provided with holes to fit over a pin, so as to allow the squeezer to be adjusted towards or from the block C. Corresponding notches and a pin are also provided for adjusting the upper end of the squeezer F. At the front of the machine is arranged a grooved rouse, in which is fitted to work a corresponding disk or roller, upon the bearings of which are a spring; the said rollers serving to squeeze the water from the clothes.

Claim.—The combination of the swinging squeezer C with the adjustable squeezer both being arranged, constructed, and operated in the manner and for the purposes set and Also, the method herein described of adjusting the squeezer F, and of operating the same

so as to adapt the machine to wash a large or small quantity of clothes, as set forth.

Also, the arrangement and combination of the grooved roll M and spring O, the was

operating in the manner and for the purposes substantially as herein set forth.

No. 36,524.—J. A. Minor, of Hartford, Conn.—Improvement in Sash Fasteners.—Parel dated September 23, 1862.—This invention consists in the employment of a cam provided partly with a smooth and partly with a serrated edge, and is confined in a suitable case, which is attached to the window casing by a screw upon which it turns, and is retained a one of two positions, for locking the sash in an open or closed condition, respectively means of a spring which acts upon one or other side of a protuberance on the cam, accorded as it is desired to have the window sash held in an open condition or locked when closed.

Claim.—The cam A, having a serrated face b, square end c, and protuberance c, in combination with the spring d and notch f, when the whole is constructed and arranged c

operate in the manner specified.

No. 36,525.—G. W. Penniston, of North Vernon, Ind.—Improvement in Hay and Hay Presses —Patent dated September 23, 1862.—The talling doors counsist of a series of have panels placed in the upper part of the press, and confined by the rabbeted edges of the pieces. Under the bale is a concave or semicircular chamber to facilitate the passing the hosp or tie around the bale when the latter is pressed.

Claim.—The falling doors, figure 2, letter I, in connexion with the slide pieces, figure 1.

letters F F

Also, a number of concave cylinders, figure 3, letter L, for passing the hoop or tie arout the bale, which saves the time and labor of making a pit and working under the presentation.

No. 36,526.—Ovid Plumb, of Millport, N. Y.—Improved Canal-boat Propeller.—Pare: dated September 23, 1862.—Extending underneath the whole length of the centre of webset is an enclosed longitudinal space for the passage of the water, over the centre of webset sarranged a paddle-wheel, and leading from said passage on either side, longitudinal to the paddle-wheel, is a water-way, passing around laterally and opening at the side of the wheel case, so as to receive the centrifugal action of the water acted upon by the whole the passage and water-ways are provided with an adjusting gate or valve in front and the rear of the wheel, for the purpose of deflecting the water from the central passage-way some side of the wheel, and allowing its discharge at the other side, so as to admit of the being moved in either direction.

Claim.—The side water-way or ways G, connecting with the main enclosed passage Beseither side longitudinally of the paddle-wheel, and opening into the wheel chamber Determine the passage b in such a manner that the water admitted therein is carried around by paddle-wheel, thus producing a centrifugal action and escaping at the rear, the water

arranged and operating substantially as herein described.

Also, covering the openings of the water-way or ways G, leading from the main warr-passage, by the hinged adjusting valves or gates H.H. so that the water may be delted in at either end of said way or ways and discharged into the chammer D, and thenever through the opposite end of the main passage, to adapt the boat to cunning in either discounting, combined and operating substantially as herein set forth.

No. 33,527.—N. Z. POTTER, of Uniontown, Ill.—Improved Sugar Evaporator.—Paral dated September 23, 1862.—This invention consists in the arrangement of two flues of under each of the finishing paus, in combination with three dampers, two in front of the flues and one in the chimney, in such a manner that by adjusting the said dampers the base can be made to pass through either flue at pleasure. Under the forward pan is placed shelf, which protects a portion of the pan against the heat of the fire, and causes the sate of accumulate at one end of the pan, so that it can be easily removed.

Claim.—First, the arrangement of the double flues GG', pans BB', and dampers H combination with the oscillating damper l in the chimney, constructed and operating as a.

for the purposes set forth.

Second, the shelves r between the fire and the bottom of pan A, as and for the purpose specified.

No. 36,528.—H. W. PUTNAM, of Cleveland, Ohio.—Improved Key and Corkeres in Bottle Fasteners.—Patent dated September 23, 1862.—This device is designed to be used 3.

connexion with the cork fastener, for which a patent has been granted to the said Putnam; and the invention consists in attaching two arms to the shank of a corkscrew at right-angles with the same, and so as to pass each side of the cork, the ends of the said arms being bent inwardly, to enable them to engage with the wire fastening and release it from the cork.

Claim.—The arms C C and nibs D D, in combination with a corkscrew, constructed and sperating as and for the purpose herein set forth.

No. 36,529.—RENSSELAER REYNOLDS, of Stockport, N. Y.—Improvement in Looms.—Parent dated September 23, 1862.—This device is designed to be applied to let off motions in looms in which an oscillating whip-roll, or its equivalent, is employed. The invention consists in the employment of a roll arranged in a position below and at some distance in rear of the whip-bar, where it is supported by its journals being fitted to fixed bearings in brackets secured to the sides of the loom, and where the yarn on its way from the beam to the whip-bar will pass behind and in contact with it, so that a given tension of the yarn will always have the same effect upon the whip-bar or whip-roll, and the letting off will be uniform, whatever may be the quantity of yarn upon the beam.

ever may be the quantity of yarn upon the beam.

Claim.—The roll E applied in fixed bearings entirely independent of the whip-bar or whip-roll, and in relation to the said bar or roll, substantially as herein described and operating as

set forth.

No. 36,530.—M. A. RICHARDSON, of Sherman, N. Y.—Improvement in Cream Pumps.—Patent dated September 23, 1862.—This device consists in the employment of a pump provided at its lower or induction end and at the inner end of the spout with a series of screens of different degrees of fineness, through which cream is forced by the operation of the piston and valves, for the purpose of breaking and thoroughly disuniting the particles of cream that collect upon the surface of the milk previous to its being churned.

Claim.—The use of the wire screens M and K, or their equivalents, in combination with the spout G, valves H and I, pump stock C C, lever F, and piston E, in the manner and for the

purposes specified.

No. 36,531.—B. S. ROBERTS, of the United States Army.—Improvement in Breech-Loading Fire-arms.—Patent dated September 23, 1862.—Hinged to the rear upper end of the barrel is a lever, to the under side of which is attached a wedge provided with a slot that allows it a limited longitudinal motion upon a pin fitting in the slot. The rear end of the wedge, when in a closed position, abuts against a shoulder, which is slightly bevelled, so as to press the forward end of the wedge closely against the base of the cartridge case, when the latter is inserted in the rear end of the barrel.

Claim.—First, in a breech-loading gun, in which the breech is opened and closed by the partial revolution of a lever around a centre, the use of a sliding wedge, working in combination with the lever when such wedge has a longitudinal motion, which is radial to the centre of revolution of said lever, substantially in the manner and for the purpose above set

iona.

Second, the combination of the lever b, the wedge a, and the shoulder c, when operating in the manner and for the purpose above set forth.

No. 36,532.—JOHN ROBINSON, of Hobart, N. Y.—Improvement in Ptoughs.—Patent dated September 23, 1662.—The beam of the plough is attached to the land side thereof in such a manner as to enable the beam to be capable of being adjusted—first, vertically and bodily in a horizontal position; secondly, to admit of the point or end of the beam being raised or lowered; and, thirdly, to allow a lateral adjustment of the beam either to the right or left.

Claim.—Having the rear portion of the beam E made to fill or cover that portion of the land side between the handles D and the mould-board A, in combination with the triple adjusting slots b, bolts c, and land side C, as and for the purpose herein shown and described.

No. 36,533.—JOSEPH ROBISON, of Potter Center, N. Y.—Improvement in Machines for Upsetting Tires.—Patent dated September 23, 1862.—A in the engraving represents a base plate made of iron and of segmental form, and provided with a flange on either side. To the outside of the base plate is pivoted a roller provided with holes, in which are fitted the ends of connecting rods, the other ends of the rods being attached to sliding clasps which encompass the ends of the base plate.

To the inside of the clasp are secured the divided ends of a band that surrounds the tire, the size of the band being made adjustable by passing the ends opposite the base plate through a clasp provided with a set screw. By drawing the clasps upon the base plate together over the heated portion of the tire, the latter is caused to be shrunk to the si e

required.

Claim.—First, the plate A, when made as specified.

Second, the band F, when made as specified and used for the purpose set forth. Third, the roller B, clasps C and C, and connexions D and D, when constructed and

arranged as and for the purpose specified.

No. 36,534.—N. C. SANFORD, of Meriden, Conn.—Improvement in Asgers.—Patentiand September 23, 1862.—This invention consists in providing the auger with supported lips or cutters formed on the ends of the auger in such a manner as to enable the august cut transversely of the grain and serve as bearings to keep the same in proper position to preventing it from being deflected from a true course.

preventing it from being deflected from a true course.

Claim.—The supplemental lips or cutters d d in combination with the lips or cutters. It spur or screw c, all constructed and arranged substantially as shown, to form a new same

proved implement or auger for the purpose specified.

No. 36,535.—JACKSON SHANNON, of Freeport, Ill.—Improvement in Seeding Machine—Patent dated September 23, 1862.—The frame of the machine is supported in front upon recaster-wheels attached to a cross-bar which is connected to the side beams by means of the or guides, in such a manner as to enable a vertical motion to be imparted by a lever, so the depth to which the seed is deposited may be regulated; and by depressing the case of the frame is raised to throw the working parts out of the ground when the machine is to be turned or not in operation.

The hind wheels are secured to the side beams in such a manner as to admit also of veria

adjustment.

Suspended from a bar or chain hooked upon an arm extending from the upper edge of the hopper, and from a hook and eye projecting from the centre of the lower front edge of the hopper bottom, is a distributing board, to the under side of which is attached a weight which serves to keep the same level upon different grades of ground.

To the rear ends of the side beams are secured three double-coned covering and smoother rollers turning loosely upon an axle secured in boxes attached by means of a swivel to have

connected with the beams.

Claim.—First, the arrangement of the vertically-sliding bar E and vertically-adjusts' axle G in combination with the caster wheels C, wheels D D', and frame A, all constructs and operating as shown and described.

Second, the arrangement of the balance weight h' in combination with the distribute

board L, as and for the purpose described.

Third, the arrangement and combination of the swivel boxes d 2, e 2, axle S and concerollers R, as and for the purpose specified.

No. 36,536.—A. F. SMITH, of Norwich, Conn., and WEBSTER WAGNER, of Palatine Bridge. N. Y.—Improvement in Ventilating Railroad Cars.—Patent dated September 23, 180.—In the centre of the roof of the car is a recess or opening extending nearly its whole and In the sides of this recess are a series of openings provided with sliding shutters, and at the side of the same is a continuous chamber having corresponding openings provided with 64 its shutters which may be adjusted at any angle, and which serve as deflectors to exhaust we air from the car during the motion of the latter.

Claim.—First, receiving the air from the interior of the car into the space under the lectudinal elevated portion of the roof, and exhausting it from thence by deflectors through it ings uniformly distributed at the sides of such elevated position, for the purposes of the

Second, the combination and arrangement of the exhausting devices, or their equivalent in the sides of an elevated central portion of the roof, and separately adjustable aperture the top of the sides of the car for the admission of fresh air, substantially in the manner of the purpose herein set forth.

No. 36,537.—W. T. SPENCE, of St. Louis, Mo.—Improved Fan Attachment for Serief Machines.—Patent dated September 23, 1862.—This invention consists in connecting a table the treadle of a sewing machine in such a manner that the movement of the treadle in each ting the machine will give motion to the fan so as to fan the operator.

Claim .- The lever and fan applied to a sewing machine, and arranged so as to be op

from the treadle thereof, substantially as herein set forth.

No. 36,538.—GREENLEAF STACKPOLE, of Portland, Maine.—Improvement in Bit Brac.s.—Patent dated September 23, 1862.—One-half of the socket which holds the shank of the inhuged to the body of the brace that forms the other half, and upon the interior face are two projecting bearings. These bearings have V-shaped grooves to conform to the of the bit shank so as to accommodate bits having shanks of different sizes. A ring is to slip over the two parts of the socket when closed to hold the bit in place.

Claim.—First, forming the socket of a bit brace with bit shank bearings C C', subsidered

as and for the purpose set forth.

Second, so forming the bearings C C' that the lesser grooves therein may be made to test to more than one-sized bit shank without an enlargement of the grooves to the extension whole length of the socket or the bit shank, substantially as specified.

Third, in combination with a divided bit-shank socket having bearings C C', as spetthe ring E for holding said bearings upon the shank with a solid unyielding impacts points of its length, substantially as set forth.

No. 36,539.—R. M. STIVERS and G. W. V. SMITH, of New York, N. Y.—Improvement in Shifting Carriage Tops and Backs.—Patent dated September 23, 1862.—Extending over the length of the seat, and partially across each end of the same, is a metallic rail C, from the lower inner side of which project standards or supports provided with feet with screws underneath, by means of which, in connexion with a thumb nut, the standards are secured to the seat frame so as to admit of the top and rail being attached and detached without the use of a

Claim.—The shifting rail C having two or more supports d, feet c, and screw or bolt ends brigidly welded thereto or forged therefrom, in combination with the seat frame A and nut e, substantially as and for the purposes set forth.

No. 36,540.—J. M. and R. M. THOMPSON, of Coshocton, Ohio.—Improvement in Lifting Jacks.—Patent dated September 23, 1862.—This device consists of an upright standard, through the lower part of which passes a lever. The shorter end of the lever supports an iron bar, upon which is fitted a grooved box held in position by a guard above. The iron bar is provided with perforations so as to adjust the box, by means of a pin, to the required height of an axle. On the opposite side of the standard from the box is hinged a pawl or latch which

engages at its free end in teeth upon the lever.

Claim.—The combination with the standard B of the lever C, perforated bar F, groove

box E, and self-adjusting latch D, as and for the purposes herein described.

No. 36,541.—B. T. TRIMMER, of Rochester, N. Y. —Improvement in Scouring and Cleaning Grain.—Patent dated September 23, 1862.—The screw scourers are placed upon a shaft within the scouring case, and are provided with openings for the passage of air and with teeth projecting from their sides near the ends. At one end of the scouring case, and forming a part of it, is placed a conical hulling case, in which is a correspondingly-shaped rubber having strips of leather, rubber, steel, or other elastic material inserted or screwed upon it so as to admit of their being moved out to compensate for wear. Upon the inner surface of the scouring case are a series of grooves or indentations with openings for the purpose of allowing the escape of dust and other impurities. At the end of the lower side of the conical case are op nings for the grain to pass out, which then enters a pipe leading to the lower end of the suction pipe, where it comes in contact with a current of air which is drawn up through the pipe into the chamber to the fan-blower.

Claim.—First, the screw scourers with pins or teeth projecting from their sides, and holes

through the body for the circulation of air.

Second, the conical huller or rubber, having strips of leather, India-rubber, steel, or other elastic material inserted or screwed on, so as to be moved out to compensate for wear

Third, the undulating indentations in the scouring case, running in the direction of the circumference, with openings in the bottom for the escape of dust and other impurities.

Fourth, the arrangement of the pipes and chamber for the separation of matter after the hulling process.

Fifth, the combination of scouring, hulling, and separating, in the manner described, in one operation.

No. 36.542.—WILLIAM N. WALTON, of New York, N. Y.—Improvement in Attaching Labels to Bottles.—Patent dated September 23, 1862.—This invention consists in forming the bottle with either a recess or raised portion upon its side of the shape of the required label, and surrounding the same with a rim or ledge to prevent any fluid, as it flows down the sides of the bottle, from coming in contact with the label.

Claim.—Shaping the bottle, whether in relievo or intaglio, so as to correspond with the label or inscription plate B, substantially as and for the purposes set forth.

Also, the arrangement of the lip or ridge a, whether distinct from or making a part of the cavity for the plate B, for the purpose of preventing acids, oils, &c., from entering between the label plate and the bottle, substantially as described.

No. 36,543.—ASHER WARNER, of Cleveland, Ohio.—Improvement in Animal Traps.—Parent dated September 23, 1862.—This trap is constructed in such a manner as to admit of its being graduated and set to catch any desired number of small animals, such as rats or nice, that may collect therein, the platform upon which they stand being balanced by a weight, that when a sufficient number have gathered together the weight will rise and spring a

ingger which will cause the door to close firmly.

Claim.—The herein-described construction of a trap, having a movable platform B, with a graduated lever E, and weight D, or their equivalents, in combination with the trigger I,

and door K, operating substantially as and for the purpose set forth.

No. 36,544.—LEWIS WATSON, of Canton, Mich.—Improvement in Wood-Sawing Machine.— Patent dated September 23, 1862.—This invention consists in the arrangement of a series of devices named in the claim, for the purpose of sawing wood, whereby logs of any size and length placed upon the carriage of the machine may be moved by the saw and cut to any desired length. The separate devices are disclaimed. Digitized by Google

Claim.—First, the combination of the arrangement for feeding the log to the saws, consisting of the shaft M, pulley N', band b, pulley d, pinion wheel and shaft C, vibrating post?, cog-wheel a, circle c, trundling rod B', cylinder A', chain 14, and slide σ' , and of the leve I, and weight h, with the arrangement for driving the saw G, consisting of the crank pulled A pitman x, and stock f, when constructed and operating substantially as and for the paper shown and described.

Second, the combination of the arrangement for feeding the log to the saws, the leve I. crank pulley A, and belt pulley Fig. 3, with the swinging frame W, consisting of the be pulleys 3 3 3' 4 4, the belts 2 2 6', the balance wheel 11 and its shaft, and the saw 5 and its arbor, when constructed and operating substantially as and for the purpose shown and

described.

No. 36,545.—S. B. WILLIAMS, of Baresville, Ohio.—Improvement in Smut Machine.—Patent dated September 23, 1862.—This invention consists in the employment of a serie of suction blast spouts, a fan, and a beating and scouring device, arranged in such a manuf that the grain will, in passing through the machine, be subjected to different blasts succesively at different stages of the cleaning process from one and the same fan. The bears formed of two or more sets o. radial arms, through which, near their ends, pass vertical mis having their lower ends fitted into the upper surface of a circular scourer, which latter. will the beater, is encompassed by a case or shell. The upper part of the shell is of cylindrical form, and has a series of vertical stationary rods fitted within it adjoining its inner side by which means the grain is cleansed and freed from all dirt and smut.

Claim.—The suction spouts L M N O, when arranged and combined with a fan case R beater F, scourer G, and shell H, to operate as and for the purpose herein set forth-

Also, the particular arrangement and combination of the vertical rotating rods of in arms a, and the stationary rods d of the shell H, with the conical scourer G and the over conical part of the shell H, to form a new and improved beating and scouring device, in the purpose specified.

Also, the combination of the blast spouts, fan, fan case, and beating and scouring de-

vice, when all arranged for joint operation as and for the purpose herein set forth.

No. 36,546.—W. W. W. Wood, of Philadelphia, Pa.—Improved Defensive Armer & Ships and Other Batterics.—Patent dated September 23, 1862.—This invention will be to

derstood by reference to the claim and engraving

Claim.—The armor, composed of the series of inner plates B and outer plates D, the fr mer being secured to the vessel by bolts, whose heads are covered by the outer plates, exc plate of one series having a rib fitting between ribs on one of the plates of the other series of plates, the two series of plates being secured to each other by pins e passing throw. the said ribs, the plates and ribs being so constructed that there shall be, at intervals between the inner and outer plates, a series of longitudinal spaces, for the introduction of stops. wood or other equivalent material, and the whole being arranged as and for the purpos herein set forth.

No. 36,547.—G. C. Worth, of Upper Sandusky, Ohio.—Improvement in Locks.—Partidated September 23, 1862.—This lock is formed of a lever weighted at one end, and prove at the other end with a leg extending down and entering loosely by a ball and socket) i in the upper edge of the bolt, so that the weighted end of the lever will always tend to ke? the bolt projected from the lock. Over a concave seat in the weighted lever is arranged quadrantal cam, so formed that when turned down it acts upon the lever like a wedge of serves to hold it in place, and thus lock the bolt. The cam is provided with a thumb page latch, so arranged as to hold the cam off its seat when required, and prevent the box for being accidentally locked, or to lock it so as to prevent it from being picked or un. ware from the outside, even with the proper key.

Claim.—First, the combination of the cam E and weighted lever C, when constructed as

arranged as set forth.

Second, the latch or cam g, in combination with the cam E and its projection f, substant tially as and for the purpose set forth.

No. 36,548.—Paul Pryibil, of New York, N. Y., assignor to George Scheiffell. the same place. Improved Machine for Cutting Crystals. - Patent dated Septem's 1802.—This invention consists in the arrangement of an adjustable inclined revolving carrying a suitable clamp for the crystals, in combination with a grinding stone retoring a horizontal shat in such a manner that by changing the inclination of the clamp the position of the clamp is adjusted according to the size of the stone, and according with size and shape of the crystal to be cut, thus enabling each stone to be used up and done? the flanges which secure it to the shaft.

In combination with the frame which forms the bearings for the clamp shaft, and to we a sliding motion can be imparted towards and from the grinding stone, is a ganging and so arranged that the clamp can be adjusted to different sizes of crystals.

In connexion with the above is a tipping head provided with two or more act access,

with a guideway for the frame of the clamp shaft, so that by raising or lowering the rear end of the tipping head the clamp is moved towards or from the grinding stone, and the crystal be made to bear on the stone at the most desirable angle.

In combination with the rotary shaft are two globe-shaped elastic pads, between which the crystal is clamped and prevented from being broken, the correct position of the crystal between the pads being determined by means of a curved flat spring.

Claim.—First, the arrangement of the adjustable inclined revolving shaft E, carrying the clamp D D' in combination with the stone A, rotating on the horizontal shaft B, constructed and operating in the manner and for the purpose specified.

Second, the arrangement of the gauging screw g, in combination with the frame F, and with the adjusting screw f, as and for the purpose described.

Third, the arrangement of the tipping head H, with two or more set screws y, in combination with the sliding carriage F', attached to the frame F, the whole constructed and operating

as and for the purpose set forth.

Fourth, the arrangement of two globe-shaped elastic pads D D' in combination with the rotary shaft E, and pivot E', constructed and operating in the manner and for the purpose shown and described.

Fifth, the employment of the curved spring s, in combination with the elastic pads D D'. substantially as and for the purpose specified.

No. 36,549.—J. W. BRYANT, of Welake, Florida, assignor to L. A. Osborn, of Newark, N. J.—Improvement in Caps.—Patent dated September 23, 1862.—This invention is explained by the claim and engraving.

Claim.—A cap formed of woven wire, adapted to be worn without other covering, and also to receive such covering as the vicissitudes of the season or the vocation or taste of the

wearer may require, all substantially as described.

No. 36,550.—J. C. Millar, of Troy, N. Y., assignor to Himself and R. D. Cunningham, of the same place.—Improvement in Gig Mills.—Patent dated September 23, 1832.—This invention consists in so constructing a napping roller for napping the back side of the cloth or blankets, conjointly with napping the face side by the napping cylinder, that the lengths of card or tensel points acting upon the blankets or cloth, may be regulated from the full length of the point to any smaller length, or the action of the card or teasel points, when desired,

may be wholy excluded from action on the surface of the cloth, by means of regulating rods. The drawing rollers are provided with adjustable bearings for the purpose of regulating the rension of the rollers on the cloth to the proper amount required for drawing the cloth over

the napping cylinder.

Claim.—First, the back side napping roller F, constructed substantially in the manner as herein described and shown, and operating in the manner and for the purposes as herein

Second, in combination with the napping cylinder B, the adjustable drawing rollers K K' K2 when the rollers K' K2 are constructed with adjustable bearings, and arranged substantially in the manner as herein shown and described, and operating as set forth for the purpose of regulating the degree of tension on the cloth drawn over the napping cylinder in the manner

as h rein specified.

Third, in combination with the improved napping cylinder B, having either a direct or reverse revolution, at will, as herein described, the general arrangement of the adjustable rollers E E', the back-side napping roller F, the stretching rollers J or Z, the adjustable drawing rollers K K' K2, and the auxiliary drawing roller V, for the purpose of napping blankets and both sides of the cloth together, or at one operation, and raising the nap longitudinally in both directions, direct and reverse, without the necessity of shitting the cloth in the machine by hand, end for end or side for side, before such operation can be completed.

No. 36,551.—CHARLES BEACH, of Penn Yan, N. Y., assignor to Himself and S. C. CLEVELAND, of the same place.—Improvement in Machinery for Preparing Hemp and Flaz for Carding.—Patent dated September 23, 1862.—This invention is designed as an improvement upon a machine for which a patent was granted to Charles, Joseph, and Thomas Beach, and Mowry, on the 29th of August, 1848.

The object of this invention is to prepare flax, hemp, and other similar stalks having a long time, from its rough or unbroken state, in such a manner as to be carded, spun, and woven the cotton and wool; to the accomplishment of which, the fibre is to be thoroughly separated from the woody portion of the stalk, and broken into short pieces or lengths for proper manipuation, by subjecting it first to the action of two sets of saws, one set revolving at a greater velocity than the other. The stalks are then placed in a revolving trough in which are fit d wooden rollers arranged to be adjusted vertically.

The circular trough is encompassed by a perforated cylinder, and midway between the pressure rollers are arranged smaller rollers, provided with teeth or projections for the purpose

of saring the material after the rollers have passed over it.

Claim.—The two sets of saws E E and F F, running at unequal rates of speed, when the same intermatch as described for the purpose of breaking the stalks and fibres without cutting. them abruptly, substantially as herein set forth.

Also, the pressure rollers L L, having their bearings M M resting in the guide supports NN, and adjustable to different degrees of pressure, and yielding to inequalities of the material in the acted on by means of the spring m and screw O, the whole arranged in combination with the trough K, substantially as herein described.

Also, the perforated cylinder Q, in combination with the circular trough K, for the pay of retaining the filaments, while the shives and dust are allowed to escape, substantiant at

herein set forth.

Also, in combination with the perforated cylinder Q, the pickers P P, whereby the Excreated by the latter removes the trash without the fibres, substantially as herein specified

No. 36,552.—S. R. SMITH, of Cincinnati, Ohio, assignor to LANE & BODLET, of the same place.—Improvement in Head Blocks for Circular Saw-mills.—Patent dated Septement 23, 1862.—The block or base piece in this machine is made of wrought-iron, and the kneed the head blocks are operated in such a manner that the log may be accurately adjusted saw; any variation in the rack being compensated for by a slight adjustment of parts, so the both knees of the carriage may be adjusted simultaneously and with an equal movement. The rack is connected to the base piece by means of a dovetail projection on a neck of the base piece on which the knees slide, so that the base pieces will not be weakened by hear perforated with holes, as in the usual method.

Claim.—First, a head block for saw-mill carriages, provided with a block or base per L

of wrought-iron, substantially as set forth.

Second, connecting the rack C to the block or base piece B, by means of a dovetal or projection b on the neck a of the block or base piece, and fitted in a recess c in the surface of the rack, substantially as described.

Third, the combination of the arms D H, cranks F G, and slide bar I, arranged in exnexion with the lever J and stops f f in the plate L, for actuating the rack C and knee 0. w

specified.

Fourth, securing the crank G to the arm H by means of the bolt b', fitted in the object slot a' of the arm H for the purpose of varying the length of crank G, and equalizing to movement of the knees O, as set forth.

No. 36,553.—FRANCIS ALGER, of Boston, Mass.—Improvement in Combined Time at Percussion Fuze for Shells.—Patent dated September 30, 1862.—This invention consists a combining in one fuze case a charged plunger and a time percussion fuze. The fuze case is freed from the gases produced by the burning of the time fuze by means of holes as grooves in the head and plunger whence the gases pass into the space between the disks: at opening into this space are holes V drilled through the upper rim of the fuze case, so that the shell passes through the atmosphere, a partial vacuum will be made around the movie of these apertures, and thus exhaust the interior of the fuze case. Through the sides of the fuze case are small holes, into which are fitted plugs or metallic cores, which latter are forest out when the plunger is exploded, leaving a passage for the flame through the fuze case into the shell.

Claim.—First, the combination in one fuze case or stock of a charged plunger and a

Second, the apertures vv, substantially as and for the purpose specified.

Third, the plugged holes m m through the sides of the fuze case for the purpose of transmitting fire to the interior of the shell, substantially as described.

No. 36,554.—WILLIAM BALLARD, of Homer, New York.—Improvement in Grain Drills—Patent dated September 30, 1862.—In this machine the drills are firmly attached in pass to the vibrating bars n, which bars are pivoted at their centres to a bar extending across to machine and provided with an elbow at each end, which elbows are hinged by pivots: a perpendicular slot to short cross-pieces attached to the under side of the axle, whereby sale pair of drills is allowed to operate separately and to vibrate sidewise, and the whole to real and fall so as to adapt themselves to the inequalities of the ground.

Claim.—The manner of attaching the drills upon a vibrating bar a to the adjustable at q, and the peculiar construction of said bar q, with elbowed or crooked ends, and the manner of supporting it by a pivot working in a slot, the whole to be used in combination as

above set forth.

No. 36,555.—J. L. BONHAM, of Hellen, Pa.—Improvement in Revolving Ordence.—Paient dated September 30, 1862.—This invention consists of a many-chambered cylinder volving in a bed adapted to swing on trunnions in a swivelled frame. Fitting loose; it a recess in the periphery of the cylinder is a band, to which is rigidly attached a key. Wedge-shaped recesses are also formed in the periphery of the cylinder to receive a particle cap is exploded by a hammer operated by a trip depending from the aforesaid band. It the rear of the bed is arranged a knife, which, as the cylinder is rotated, is caused to cattle end of the cartridge.

Claim .- First, the combination of the revolving many-chambered cylinder H, swinging bed G, and swivelled frame D, constructed and operated in the manner and for the purposes set forth.

Second, the knife N, in combination with the cylinder H, when arranged to operate in

the manner and for the purposes set forth.

Third, the combination of the cylinder H, lever J, pawl L, trip Q, and hammer P, when arranged to operate in the manner and for the purposes set forth.

No. 36,556 —Andrew Buchanan, of Jersey City, N. J.—Improvement in Valves for Steam Engines.—Patent dated September 30, 1862.—This invention relates to a method of transferring a portion of the pressure produced by the steam on the back of the valve to a series of rollers arranged to run upon tracks within the valve chest; and it consists in a certain construction and arrangement of devices for adjusting the tracks upon which the rotters run, and also in a means of combining the rollers with the valve and adjusting them relatively thereto.

Claim.—First, the employment, as ways for the valve rollers to run upon, of bars adjustable

by screws, substantially as herein specified.

Second, combining the roller axles with the valve, by means of recesses it in the bars II, or their equivalents, attached rigidly to and projecting over the ends of the valve, substantially as and for the purpose herein specified.

Third, the set screw jj, applied in combination with the bars II, or their equivalents,

and the roller axles, substantially as and for the purpose herein specified.

No. 36,557.—A. B. CROSBY, of Green, Maine, and JESSE LADD, of Boston, Mass.—Improced Machine for Collecting and Amalgamating Fine Particles of Gold.—Patent dated September 30, 1852.—This invention consists in placing near the bottom of a vessel a perfor ated diaphragm or partition, from the centre of which arises the induction pipe, through which latter the gold-bearing material passes, and all so arranged that said material will be caused to pass up through the disphram and through the quicksilver above the surface of the diaphragm and thence to the eduction chamber.

C.a.m.—The application of a perforated plate diaphragm or partition, in the manner above

described and for purposes above specified.

No. 36,558.-W. H. CROSBY, of Washington, D. C .- Improvement in Boilers for Culinary Purposes.—Patent dated September 30, 1862.—Attached to the under side of the lid of a pot or boiler, which contains the meat or vegetables to be boiled, are three slides, operated by means of a latch at the centre of the lid, which latch presses flanges connected with the lid against flanges on the rim of the boiler so as to form a steam-tight joint, as the metal expands by reason of the heat.

I claim the slides E2 E2 E2, operated by the latch F2, when combined with a boiler for

culinary purposes, constructed and operating substantially as described.

No. 36,559.—LYMAN DERBY, of New York, N. Y .- Improvement in Attaching Thills to Azles.—Patent dated September 30, 1862.—Antedated August 19, 1862.—This invention consists in securing the thills and poles of carriages to the axle by means of a screw bolt secured at one end of a centre pin passing through ear pieces formed on the end of the thill irons, and inserted through a mortise hole in the jack, so that by tightening up the screw nut on the lower end of the bolt the thills will be firmly held in contact with the jack, and as the parts in contact wear away they will be prevented from rattling without the intervention of any rubber or other packing.

Claim. -First, the longitudinal arrangement of the bolt E, with reference to the thills, in combination with the thill irons B, substantially as described and for the purposes herein-

before set forth.

Second, the jack, having a mortise longitudinally through it, in combination with the bolt E and the thill irons B, substantially as described and for the purposes hereinbefore set forth. I hird, the use of the recess H, formed in the sides of the mouth of the mortise in the jack, substantially as described and for the purposes hereinbefore set forth.

No. 36,560.—M. L. DICKINSON, of West Troy, N. Y.—Improved Whisk Broom.—Patent dated September 30, 1852.—This invention is explained by the claim and engraving. claim as a new article of manufacture a whisk brush, constructed of the brush tibres only of broom-corn whisks, and a wooden core C, the broom-corn fibres b, being bound upon the wooden core, and forming the whole outer portion of the handle I, of the brush, as herein described and shown by the annexed drawings.

No. 36,561.—C. H. and W. G. DOWD, of Scranton, Pa.—Improvement in Machines for Seam ng Metal Roofing.—Patent dated September 30, 1862.—This invention consists in arranging the bearings of the burring rollers in transversely adjustable slides in such a man-ner that the rollers can be readily separated and the machine drawn back without lifting it from the seam. In combination with the burring, folding and seaming rollers is a pair of

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squeezing rollers arranged in such a manner that the working rollers can be released from the seam, while the squeezers hold the same firmly in its place; and combined with the squeezing rollers is a yielding-bearing and an eccentric cam, so that by the action of the cam the squeezing rollers can be readily separated and the seam released. The whole which support the machine are arranged upon axies which are bent outside of the journals so as to be eccentric to the journals themselves, and by turning the axies of the wheels machine can be adjusted higher or lower as may be desired.

Claim.—First, the arrangement of the transversely moving slides f f, in combination with the burning rollers D D' E E' F F', constructed and operating substantially as at

for the purpose herein shown and described.

Second, the employment of squeezing rollers I I', in combination with the burning rollers D D' E E' F F', folding roller G, and seaming roller H, all arranged and operating sestantially as and for the purpose herein set forth.

Third, the arrangement of the eccentric lever m, and yielding-bearing l, in combinates

with the squeezing rollers I I', as and for the purpose set forth.

Fourth, the employment of axles C C', which are bent outside the journals, so as to be eccentric to the journals themselves, in combination with the wheels B B' and frame A, # and for the purpose specified.

No. 36,562.—George Earle, of Dover, Ohio.—Improved Process for Forming Leader Straps for Harness, &c.—Patent dated September 30, 1862.—This invention consists in pasting the strap, after it has been properly sewed, between two grooved cylindrical rollers the grooves varying in size according to the size required for the strap.

Claim.—The herein described process of forming cylindrical straps for harness and other

purposes.

No. 36,563.—J. P. FRAZER, of New York, N. Y.—Improvement in Fastening for Chamber Doors.—Patent dated September 30, 1862.—This device consists of a short slotted piece of metal A with a projection at each end, through one of which projections passes a screw. With the slotted piece is to be used a key having a recess at its centre to fit the housing or lock plate of a box lock. One end or hook of the fastener A is placed in the housing of either the spring or lock bolt, when the door is closed and the key inserted and tightened by the screen Claim.—The adaptation of the hook screw and key, for the uses and purposes herein forth.

No. 36,564.—R. P. GILLET, of Viroqua, Wis.—Improvement in Wagon Azles.—Patent dated September 30, 1862.—That part of the axle on which the wheel revolves is covered with a coating of Babbitt's metal, extending up so as to form a shoulder, in which is a carry for containing oil for lubricating the axle.

Claim.—Having the axle covered with Babbitt's metal, with an oil reservoir made in such

metal, all as herein set forth and described.

No. 36,565.—L. W. HINES, G. SATERLEE and S. W. HARDEN, of Quasqueton, Iowa-Improvement in Grain Registers.—Patent dated September 30, 1832.—This invention constant in the application of two stops, one on either end of a swinging spring lever or frame. 🗪 end of which latter is designed to receive the grain measure, while the other end is subjected to the action of a spring, and acts by means of a spring pawl on a ratchet wheel in sach a manner that whenever the measure is filled and the swinging frame depressed, the action of the spring pawl causes the ratchet to be propelled one tooth; and when the measure is empted the inner end of the swinging frame descends by the action of the spring just far enough " cause the pawl to catch in a new tooth of the ratchet wheel, ready for a new move.

Combined with the swinging frame is a closed box provided with narrow slots, through which the side timbers of the frame extend, and arranged so as to protect the inner end of 120 swinging frame, together with the spring pawl and registering apparatus, against the injurious

effects of dust.

Claim.—The arrangement of the stops c d in combination with the swinging frame A. spring C, or its equivalent, spring pawl D, and ratchet wheel E, all constructed and operating as and for the purpose herein shown and described.

Also, the arrangement of the closed box B in combination with the swinging frame A, spring

C, and with the registering mechanism, as and for the purpose specified.

No. 36,566.—W. W. Hubbell, of Philadelphia, Pa.—Improvement in Concussion Factor Shells.—Patent dated September 30, 1862.—This invention consists in the combination. a metallic stem or fracturing tube, with a burning composition, so that the metal of the stem shall withstand the heat and ricochet, and shall part at a fracturing point, on concussion of the shell against an object after having been fired from a gun, so as to admit fire and experiences the shell. In the front end of the metallic stem is a head or valve of circular or conical ionand covering the central hole so as to exclude the fire and fly out on concussion, and thus a pose the central hole to the action of the fire generated by the surrounding burning compartion.

The inside of the metallic stem is lined with plaster of Paris, to protect the central hele and the powder or priming it contains, from excessive heat until the stem fractures on con-

The water capping is secured to the proper case of the fuze, so as to enable the fuze composition to be inserted into the stock of the fuze, or into the shell casting most quickly in

The fracturing stem is constructed of sections of metal with a neck or flange to connect them, so as to withstand the concussion on ricochet, but fracture from concussion on penetration and explode the shell, and also be capable of graduation to explode the shell upon striking the ground on ricochet.

Claim. - First, the central metallic stem or fracturing tube, surrounded by the burning composition, so that it shall withstand the heat, and part at the fracturing point on concussion. Second, the head p set in the top or front of the metallic stem or tube, so as to fly out of it

and expose the central hole in the stem on concussion to explode the shell.

Third, the plaster of Paris lining inside of the metallic stem, for the purpose described. Fourth, the combined horizontal and vertical vents in the capping, and these also in com-

binstion with the conical or accelerating chamber.

Fifth, securing the capping by screwing it or otherwise to the front end of the paper-case fuze, so as to set the fuze readily into any stock, already capped for service when in action. Sixth, the paper facing surrounding the metallic fracturing stem to support it, and burn away and release it, substantially as described.

Seventh, the fracturing stem when constructed of sections of metal put together, and oper-

sting in the manner and for the purpose substantially as described.

Eighth, the conical or accelerating chamber L inside of the water capping, as described.

No. 36,567.—Samuel Keeler and Jacob Barthel, of Lancaster, Pa.—Improvement in Seed Drills.—Patent dated September 30, 1862.—At the rear of the frame is a swinging bar upon which is secured a cam or grooved scroll, consisting of a segment of a circle fixed diagonally apon the bar. In the grooved edge of the cam is fitted so as to move freely one end of a lever, the other end of which is connected with the shut-off slide beneath the hopper, so that as the swinging bar is turned the slide is correspondingly moved.

Claim.—The combination of the cam E attached to the swinging bar O, with the pivoted lever A operating the shut-off slide, the whole constructed, arranged, and operating in the manner

and for the purpose set forth.

No. 36,568 .- G. H. KIDNEY, of Cleveland, Ohio .- Improved Washing Machine .- Patent dated September 30, 1862.—This invention consists in the employment of a series of balls strung upon cords extending around the surface of the cylinder. Under the cylinder is also arranged a series of balls strung upon cords, attached at one end to a bar in the upper front part of the box, and at the other end extending over pulleys at the rear of the box. Weights part of the box, and at the other end extending over pulleys at the rear of the box. Weights are attached to the lower ends of the cords, so as to admit of the self-adjustment of the bulls to the clothes between the two sets.

Claim.—First, the roughen-surfaced self-adjusting bed plate, when the same is constructed

substantially as described, and for the purpose set forth.

Second, the combination of the roughen-surfaced self-adjusting bed plate, and the roughensurfaced cylinder, when the several parts are constructed and arranged substantially as described and for the purpose set forth.

No. 36,569.—H. B. LANSING and H. W. GRENELL, of Hudson, Mich.—Improvement in Corn-Planters.—Patent dated September 30, 1862.—The rods upon which the markers are affixed are at ached to the axle at one end; at the other end they are attached to a collar upon the axle provided with teeth on its outer side which engage with a rack on the hub of the wheel, so that the markers are caused to rotate with the wheel. By means of a forked lever fitting in a good on the collar the latter may be disengaged from the hub of the wheel, when the latter will move without revolving the axle. By means of a jointed lever in conmexion with a ratchet wheel and the toothed collar, the distance between the hills may be shortened as desired. At the rear of the tube which conveys the seed to the ground is a stamper, so arranged with a cam and cord as to rise and fall at the proper moment when the corn is dropped into the ground.

Claim.—First, the markers e e e at one end of the axle inserted into the collar C, and at

the other end into the axle A, for the purpose herein set forth.

Second, the tube d, in combination with the stamper Q, operated in the manner and for the

purpose herein described.

Third, the jointed lever K O, in connexion with the ratchet wheel J, and the toothed collar C, arranged in the manner and for the purpose herein set forth.

No. 36,570.—Rufus M. Merrill, of Chicago, Ill.—Improvement in Lantern Lamps.—Patent dated September 30, 1862.—This invention relates to an improvement in lantern lamps for burning coal-oils, and it consists in the arrangement of tubes or air passages extending from openings in the lamp bottom upwards on the outer side of the oil reservoir, and curving with the same so as to insure a proper supply of air to the flame without extinguishing it when a sudden motion is given to the lantern. The upper and lower portions of the lantern are connected by means of spring catches secured to the frame at their lower ends, and extending upwards to near the top, where they are bent and pass through slots in the casing and terminating with hooks or catches.

Claim.—First, the application of one or more air tubes or passages outside of the oil cap of a lantern lamp, substantially as and for the purpose herein set forth and described.

Second, the spring catches D D, when arranged substantially in the manner and for the purpose specified.

No. 36,571.—MYRON MOSES, of Malone, N. Y.—Improvement in Breech-Loading Finarms.—Patent dated September 30, 1862.—This invention consists in forming the frontent of the cartridge case, and the portion of the barrel against which the case rests, of such a stage that the gas from the exploding powder will not pass between the barrel and the cylindreal potion of the cartridge case and foul it. Combined with a removable metallic cartridge control to the rear end of which is inserted a cap tube or nipple, is a cup which covers the stage tube, and prevents the gas from the exploded cap from foulling the lock or other works; parts, while the gas is permitted to escape through a channel made for the purpose.

Claim.—First, in combination with the removable charge-holding chamber or cylinder D. the neck i, and the shoulder near it on the outside and front end of said chamber or cylinder and the recess in the bore for receiving both the neck and the shoulder, for the purpose

specified.

Second, the movable cup G, with its opening 5, in combination with an opening z, for the passage of the nipple r as the barrel is vibrated, and for the escape of gas from the exploied cap, arranged and operating substantially as described.

No. 36,572.—Nelson Palmer, of Greenville, N. Y.—Improvement in Hay Elevators.—Patent dated September 30, 1862.—The hay fork, consisting of the curved times, head piece and handle, is attached at the head piece by means of a hinge to a bale, at the upper end d which is a pulley block; over this block passes a rope having one end secured to a joined brace near the joint, which brace serves to keep the handle and bale in the proper position is the times to penetrate the hay to be raised. By pulling the other end of this rope, when the hay is properly deposited, the brace turns upon its joint and admits of the times being easily withdrawn.

No. 36,573.—G. T. Pearsall, of Apalachin, and S. A. Garrison, of Union, N.Y.—Improved Machine for Boring Hubs.—Patent dated September 30, 1862.—Attached to be upper end of a permanent frame, by means of hinges, is a supplemental frame so arranged as to admit of its being turned over in a horizontal position, relatively to the main frame when desired. To the face side of this frame is secured the wheel, and the frame is provided with a gauge for the purpose of admitting the wheel to be accurately centred thereon, and used in connexion with a self-adjusting nut and adjustable bearing. In the centre of an unular plate of the supplemental frame is fitted a circular rotating head or disk composed of two annular plates having each an oblong rectangular opening through which passes a screw, and to the outer plate is secured a slide, provided with an oblique opening for the passage of the screw, which causes the latter to have an oblique position relatively with the hub of the wheel.

wheel, and thus gives a taper form to the hole bored in the hub of the wheel.

Claim.—First, the securing of wheel C to a supplemental frame B, containing the working parts of the machine, which frame is attached to the fixed frame A, when the latter is in a

horizontal position, as and for the purpose specified.

Second, the nut E, provided with an external spherical case j^* of soft metal cast around in connexion with the spherical socket j, formed in or between the plates f k, the case j^* , and nut E, being prevented from turning in the socket j by a projection K', substantially is herein set forth.

Third, the disk or head H, formed of the two plates o p fitted in the plate e of the traine C. in counexion with the slide I, screw D, and nut E, all arranged for joint operation, as and for the purpose herein set forth.

No. 36,574.—C. B. REICHMANN, of New York, N. Y.—Improvement in Holders for Laws Shades.—Patent dated September 30, 1862.—This invention consists in connecting the sp. 22 which extend from the metal ring at the upper part of the shade to the holder, by mean a lips and slots, so as to dispense with rivets and leave no opening through the spring 22 holder.

Claim.—The lips 4 4, and slots 3 3, formed as specified, and employed for connecting the spring c to the ring b, in the manner and for the purposes set forth.

No. 36,575.—J. S. ROWELL and M. F. LOUTH, of Beaver Dam, Wis.—Impresented 18 Horse-Powers.—Patent dated September 30, 1862.—This invention relates to a horse-power

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machine in which a horizontal master wheel is made to act upon two pinions secured to a tumbling shaft which extends the whole length of the machine; and it consists in an arrangement of parts whereby the friction upon the bearings is reduced, and the wheel caused to continue to work well in gear after having become somewhat worn, the necessity for friction

rollers being also dispensed with.

Claim.—The described arrangement of the master wheel B b, pinion shafts D D', cogwheel I, internal gear-wheel G, tumbling shaft H, and pinions I I, the whole constructed

and operating in the manner and for the purposes specified.

No. 33,576.—J. P. SCHENKL, of Boston, Mass.—Improvement in Percussion Fuzes for Englasive Shell.—Patent dated September 30, 1862.—The nature and object of this invention

will be understood by the claim.

Claim.—The construction of the rear end of the plunger case A in such manner that the said rear end, while the fuze may be fixed in a shell, shall separate the plunger chamber cfrom the powder charge of the shell, and on explosion of the charge of the plunger, be broken away thereby, so as to allow the flame of such explosion to communicate with the explosive charge of the shell.

Also, the concussion fuze, as made with an explosive charge arranged within its plunger, and to be fired by explosion of the cap or percussion powder of the nipple, such being for the

purpose of setting fire to the bursting charge of the shell, as described.

No. 36,577.—F. B. Scott, of Buffalo, N. Y.—Improvement in Rotary Pumps.—Patent dated September 30, 1862.—Within a cast-iron case is fitted a piston cylinder, to which are hinged the radial arms that carry the pistons. Connected with each piston is a friction roller that moves in a cam secured to the inside of the case, which cam serves to throw the pistons outwardly through slots in the cylinder at the proper moment to carry the water forward to the discharge pipe, and also to withdraw them at the proper moment to pass the abutment. shaft by which the piston is revolved is made hollow with openings in its sides to receive water from a chamber above the cylinder case, and serves both as a shaft and discharge pipe. Claim.—First, the arrangement of the piston cylinder F, pistons J, and cam D, with the case A, substantially as herein set forth.

Second, the hollow rotary shaft P in combination with the water chamber S, substantially

as described.

No. 36,578.—JOHN SEBO, of Wilmington, Del.—Improvement in Invalid Bedsteads.—Patent dated September 30, 1862.—The rails of this bedstead are made round, and taper from the centre to the ends. The canvas is stretched upon a square frame E, which serves as a rest for the body, and is capable of adjustment to any degree of inclination by means of iron rods G, which extend downward on the outside of the head of the bedstead, and have cords H attached at their lower ends, the cords being suspended from a roller operated by a crank.

Claim.—The shape of the rails D and their arrangement and combination with the devices

E G and J, arranged and combined as described for the purposes set forth.

No. 36,579.—B. C. SMITH, of Burlington, N. J.—Improvement in Railways.—Patent dated September 30, 1862.—This invention is designed as an improvement in railways, for which a patent was granted to the said Smith on July 9, 1861, and it consists in combining a series of longitudinal cast-iron girders, secured to each other and bedded into the ground, so as to be capable of being reversed or replaced by new rails instead of having the rail cast to and forming a part of the girder. The rails are connected to the girders by means of brackets and wedge at points to secure them both laterally and vertically, and also by means of proections on the girder in connexion with the rail and detachable wedge-formed blocks, the rails may be secured laterally only when desired.

Claim.—First, combining a series of longitudinal cast-iron girders A, secured to each other and bedded into the ground, with a series of detachable rails B, substantially as set forth for

he purpose specified.

Second, the brackets C and C', the latter being either fixed or loose, and the wedge D, the whole being combined with and applied to the girder and rails, substantially as set forth. Third, the projections E E' on the girder A in combination with the rail B and detachable reign-formed blocks F, the whole being arranged substantially as and for the purpose set

Fourth, securing the adjacent beams to each other by means of the straps II applied to the rejections G G, and secured thereto by means of hips h and key I, substantially as specified. Fifth, connecting the tie tod K to the beams by confining the head in a recess formed beween projections G G, as specified.

No. 36,580.—J. J. STORER and J. D. WHELPLEY, of Boston, Mass.—Improvement in ironding Malls.—Patent dated September 39, 1832.—This machine is designed for reducing res and other substances to a fine powder or dust, which is driven off as fast as produced brough a central opening in the case of the triturator by means of a suitable fan or blower, and used in connexion with a chamber for collecting the dust as it is blown off. To the peiphery of the disks which constitute the triturator are attached at convenient intervals ham-

mers or strikers consisting of metal bars bevolled off at the back so as to present a thin edge to the mass of ore through which the bars pass. The bolts which confine the two back of the drum together are passed through immediately under the rim, thus forming character are recesses between each two bolts, so as to cause the material to be thrown violently against as bars, and, being checked in their motion, fall again before the hammers.

bars, and, being checked in their motion, fall again before the hammers.

Claim.—First, a triturator, having a disk F and a central outlet K, in combination with a fan or blower I, for producing currents from the rim towards the central outlet to carry if the

dust or fine powder as it is produced, substantially as specified.

Second, the strikers M, with a thin edge n in a lvance, substantially as set forth.

Third, the chambers or recesses z on the inner face of the rim f, for the purpose special Fourth, in combination with a mill or triturator for producing fine dust or powder, as a fan or blower for carrying along the dust or powder, a collecting chamber or box P come or partially covered with a suitable cloth which will permit the escape of the air whice are tains the dust or powder, substantially as set forth.

No. 36,581.—M. D. WHIPPLE, of Cambridge, Mass.—Improvement in Water Gauge in Steam Boilers.—Patent dated September 30, 1862.—The nature and object of this invest will be mainly understood from the claim. An explosive safety-valve, held down by a single placed over an opening made through the side of a cylinder and its lining into the timps. for the purpose of guarding against an explosion of gas in the cylinder when the fire is the kindled and before the engine is started.

Claim.—Using the lower part of the working cylinder itself as a stove or fire-pot, in continuous with an air pump and passage for conveying and forcing the air from below up the the fire directly against the piston, substantially as described and for the purpose set in

Also, in combination with a divided cylinder, a long hollow piston fitting loosely at the part of the cylinder which is exposed to the direct action of the fire, and packed at its action, which is so far removed from the direct action of the fire that the packing will be destroyed by it, substantially as set forth and described.

Also, facing the end of the piston which is in immediate contact with the fire by a disk

soapstone, or its equivalent, substantially as described.

Also, in combination with a hopper and the fire-pot of a hot-air engine, an automatic intermittently with fuel, substantially is manner set forth.

Also, in combination with the fire or gas chamber of a hot-air engine, an explosive TLII G, for the purpose described.

No. 36,582.—James K.Whiteside, of Rising Sun. Md.—Improved Washing Machine—Patent dated September 30, 1862.—Upon the under sides of the lids which open from the coar are secured a series of triangular-shaped ribs with rounded edges on the perpendicular and corrugated on their under sides. On the inner ends of the box are angular verteal and on the bottom of the box is a reciprocating block formed of a series of ribs corrugate, waved on their upper edges. The machine is operated by moving it to and fro on rockets tached to its legs.

Claim.—In combination with the wash box and washing block or frame the rise E46 arranged to operate in connexion with each other in the manner substantially and for the

pose set forth.

No. 36,583.—W. F. COCHRANE, of Springfield, Ohio, assignor to Himself and Warper & Child, of the same place.—Improvement in Hopper Boys for Flour Mills.—Patent are September 30, 1862.—In this machine the hopper boy consists of a vertical shalt correspectively. The ends of the leader and rake-arm upon its upper and lower respectively. The ends of the leader and rake-arm are connected by cords in order to to the rake the movement of the shaft and leader. In case the discharge be stopped to the quantity increases, and always remaining above the meal, the rake gradually recall the quantity increases, and always remaining above the meal. When the discharge art quantity of meal decreases, the rake-arm descends, carrying the spout-arm and spout with The spout-arm is furnished with a collar that plays freely on the main shaft and is an nected with the collar of the rake-arm, so that both will rise and fall together.

Claim.—First, giving to the spout or trough which feeds the meal from the cooling for?

the botting reel a free vertical movement, so that its mouth may always maintain the

relative position to the surface of the meal on the cooling floor.

Second, the combination of the rake-arm B' with the spout-arm B 2 and sliding spout B'

substantially in the manner described.

Third, making the arm which carries the sliding spout thin in its horizontal crossesses and sharp or wedge-shaped on its under side, for the purpose herein described.

No. 36,584.—J. B. GREENE, of Providence, R. I., assignor to E. P. GLEASON, of its same place.—For Hester for Lump Chimneys.—Patent dated September 30, 1822—112 invention consists in the employment of a wide metal ring having a flaring upper series supported upon the top of the channey of a coal-oil lamp by means of springs suscent the ring. The upper ends of the springs are formed with hooks to catch upon the top of the chimney.

Claim.—As a new article of manufacture, the within-described heater for lamp chimneys, whether attached to the vessel or object to be heated, or distinct and separate therefrom as set forth.

No. 36,585.—ISAAC HICKS, of Hartford, Wis., assignor to Himself and L. E. PECK, of the same place.—Improvement in Stump Extractors.—Patent dated September 30, 1862.— This invention consists in the employment of two levers or a compound lever in connexion with lifting bar and a fulcrum supporting bar, the two latter being provided with holes into which fit pins placed over the levers, so that the full power of the levers may be successively exerted upon the said bars, as they are elevated at each change of the pin in the holes.

To the lifting part of the frame is attached a pair of wheels so connected with the axle that the frame is allowed to rest upon the ground without subjecting the wheels to any strain or

sustaining any weight when the machine is at work.

Claim.—The combination of the bar B, levers C F, one or both, lifting bar D, and fulcrum supporting bar E, all arranged to operate as and for the purpose herein set forth.

Further, the applying of the wheels G G to the frame A of the machine, through the medium of the levers K K and hooks L L arranged with the axle H and sill pieces a a of the frame, as and for the purpose herein specified.

No. 36,586.—JACOB JENKINS, of Lynn, Mass., assignor to G. W. KEENE, M. W. SHEPARD, and J. C. STIMPSON, of Salem, Mass.—Improvement in Machines for Preparing Heels for Boots and Shoes.—Patent dated September 30, 1862.—Reference to the specification and drawings will be necessary for an understanding of this invention.

Claim.—First, the cams V and 16 in combination with the slides I J K and L and the

tool steck 24, constructed and operated as and for the purposes described.

Second, the combination of the adjustable crank C, the arm D, and the chains E E', with the rotating pattern block G, constructed and operated substantially as described.

Third, the tool-stock 24, constructed as described, in combination with the arms N and M,

substantially as above set forth.

No. 36,587.—C. H. PAINE, of Providence, R. I., assignor to Himself and HOWARD TILDEN, of Philadelphia, Pa.—Improvement in Carriage Jacks.—Patent dated September 30, 1862.—The frame of the jack consists of two bars crossing each other, one of which is longer than the other, and at the upper end of the longer bar is pivoted a lever. This lever is connected near its lower end with a short link which is pivoted to a second lever having its fulcrum in the upper part of the short cross-bar of the frame, the said link in connexion with the short arm of the lower lever serving as a togglo joint.

Claim.—The new or improved arrangement, substantially as described, of the bar A B and

the levers C D.

Also, the combination and arrangement of the toggle or link F with the levers C D and their supporting frame, the whole being made to operate as explained.

No. 36,588.—ELI PERRY, of Baldwinsville, N. Y., assignor to Himself and JOHN BOLEY, of the same place.—Improvement in Rotary Pumps.—Patent dated September 30, 1862.—This invention consists in the combination with an eccentrically formed case provided with an increasing spiral discharge passage, of a piston having radially curved and transversely concave wings, and an induction feeder extending through the top of the case, so that in addition to a centrifugal action imparted to the water, the rapid motion of the feeder serves to force the water downward, thus keeping a continual and unvaried pressure within the case and assisting in raising the liquid.

Claim.—The combination with the spiral discharge passage D of the piston provided with

curved concave wings E E and the feeder G, the whole arranged and operating substantially

as and for the purpose herein set forth.

No. 36,589.—PHILANDER PERRY, of Waterford, N. Y., assignor to Himself and E. H. BENDER, of Albany, N. Y.—Improvement in Wipers for Blackboards.—Patent dated September 30, 1862.—This device is formed of a block of wood over which is secured a piece of flannel or other similar material, under which is a stuffing composed of prepared shavings and clippings of cloth, with or without small pieces of sponge.

Claim.—The combination of the wooden blocks A and D with a covering of cloth, the

space between them being filled with a stuffing composed of prepared shavings, and clippings of cloth, with or without pieces of sponge, substantially as described and for the purposes

set forth in the within specification.

No. 36,590.—R. N. EAGLE, of New York, N. Y.—Improvement in Snuffers for Lamps.—Patent dated September 30, 1862.—This invention is explained by the claim and engraving. Claim.—First, the making of the blades of snuffers or snuffing shears for lamps, constructed with chimneys or without, and burning flat or round wick, either concave or convez, to meet the convexity or concavity of the burner or tube holding the wick.

Second, so constructing lamp snuffers for trimming the round wick that the indentation: one or both blades, when the latter are opened, admits the wick, and in closing energies and compresses it and accomplishes the work in a single and even cut in the manner described.

Third, making snuffers or snuffing shears for lamps with one part of the blades straig and another part concave or convex, for the purposes set forth.

Fourth, a partial gallery or a circular raised rim for catching the crust or burnt part of the wick when removed.

No. 36,591.—JOHN N. WILKINS, of Chicago, Ill.—Improvement in Sewing Machine-Patent dated September 30, 1863.—This invention relates to that class of sewing machine. in which a rotating hook is employed in combination with an eye-pointed needle and spethe said hook entering between the needle and its thread to form the needle-thread loop and carry it around a spool which carries the other thread; and the invention consists in in pensing with the brush or other device in common use for checking the loop, and using a finger projecting from the inner periphery of the ring which holds the spool in the cavity a recessed disk which receives the spool. The finger is curved on its inner face, and is place in front of the front face of the spool, and its upper end extends to or slightly beyond the circ of the spool, and just within the periphery of the recess in the face of the disk, by wameans the looper is drawn off the hook before its point enters the next loop, thus causing to old loop to be cast off before the hook enters the new loop.

Claim.—In combination with the rotating hook, eye-pointed needle and spool, the three controller having the mode of operation, substantially such as herein described, to receive to loop and hold it from the face of the spool so that that portion of the loop which extends back of the hook shall be drawn over the edge to the front thereof before the point of tr hook reaches the needle to enter the next loop, the said controller being so inclined as to per-

mit the loop freely to escape from it as is drawn up in forming the next loop, as set forth.

Also, extending the said loop controller to or near the edge of the spool, substantians

described, to prevent the loop from getting into the spool, as set forth.

No. 36;592.—JOHN B. ATWATER, of Ripon, Wisconsin.—Improvement in the Rifing of Guns.—Patent dated September 30, 1862.—This invention consists in enlarging the bore the gun or its sectional lines for the distance of about eleven diameters of the calibre its the breach, and extending the enlargement to the muzzle, the object being to prevent to packing of the air between the muzzle and the point at which the lands are cut away, and reduce the friction of the ball in its passage through the barrel without impairing its sp.motion.

Claim.—The cutting out of each land, in the manner and for the purpose herein spec for

No. 36,593.—T. R. TIMBY, of Worcester, Mass.—Improvement in Revolving Battery Tower. Patent dated September 30, 1862.—Antedated July 8, 1862.—This invention consists of a tower constructed entirely of iron or steel plates, and made to revolve continuously or it e mittently in either direction around its vertical axis at the option of the commander, so use all its guns may be brought successively to bear upon the same point of defence or attack

Claim.—A revolving tower for defensive and offensive warrare, whether placed on late.

No. 36,594.—D. W. WHITNEY, of New York, N. Y.—Improvement in Apparatus for Purilist Cloth for Button Holes .- Patent dated September 30, 1862. - Antedated August 21, 19 -This device consists of a platform, to which are attached a series of vertical cutters see: 4 to upright bars, which serve as guides to adjust the cloth to the cutters. Connected to platform by hinges is a frame which, when folded down, is made to fit within the case. which means a series of button holes for tents or garments may be expedit outly and regard.

cut and the places for the button marked.

Claim.—The combination and arrangement of a series of perforators with a frame and 1.2.

form, arranged substantially as and for the purpose herein set forth.

No. 36,595.—G. W. Ansley, of Cleveland, Ohio.—Improvement in Skates.—Pate October 7, 1802.—The object of this invention is to so mount the skate upon space. an easy motion is given between the sole and the runner, capable of adjustment to or heavier person. The hollow on e firmly secured to the pivoted shank has a verification. ment in the bollow cavity, and within it is placed either a gum-elastic or belica's which extends from the base of the case to a steel plate upon the sole and placed on cavity. At the lower part of the shank is a transverse pin, over which passes a ends are secured in the nut, in which works the screw, by which the springs are cappable of adjustment. Sufficient room for the movement of the springs is allowed . the pin G and the runner, or else the ends of the loop may be allowed to move up ... in the nut.

Claim.—The herein-described special arrangement of the cavity A', case B, and K K', when these parts are combined with the pivoted shank C, loop F, and adjusting ...

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as and for the purpose specified.

No. 36,596.—W. B. BARNARD, of Waterbury, Conn.—Improvement in Window Blind Castenings.—Patent dated October 7, 1862.—This invention consists in the use of a rod, which passes through a tube forming part of the projection on the sill, to which the catch ataches itself, and which is surrounded with a spiral spring, and so arranged that when the blind is closed the rod will press against it and thus prevent all rattling under the action of he wind. The precise arrangement of the rod is not claimed; it may be so modified as to be attached to the blind and press against the sill.

Claim.—The employment or use, in connexion with a shutter or blind fastening, of a presure rod applied either to the window sill or to the shutter or blind, to operate as and for the

urpose herein set forth.

No. 36,597.—W. B. BARNARD, of Waterbury, Conn.—Improvement in Blind and Shutter astenings.—Patent dated October 7, 1862.—This invention consists in having the stud or an and projection which are attached, respectively, to the window-sill and to the side of the uilding, and on which the catch of the blind or shutter fits, of taper or wedge-shape form in heir horizontal section, and having the recess in the catch of corresponding form, so that then the latter catches on the former it will fit snugly thereto, and thus prevent all movement of the shutter under the action of the wind.

Claim.—The wedge-shaped stud or pin E in the sill D of the window frame, and the edge-shaped lips on the projection F attached to the building, in combination with the pring catch B, provided with the taper recesses d, substantially as and for the purposes

erein set forth.

No. 36,598.—CHARLES BASSETT, of Massilon, Ohio.—Improvement in Hoisting Cranes.—atent dated October 7, 1862.—At the lower part of the mast is placed an annular disk aving in it an annular groove, in which are placed a number of balls, on the upper surfaces which rests another disk, to which the arm H pivoted to the upper part of the mast is conected by a brace. By this arrangement any weight attached to the outer end of the arm is sade to rest on the balls, thus allowing the arm to be swung in either direction with great ise.

Claim.—The disk D and friction balls E, in combination with the revolving arm H, when is several parts are constructed and arranged substantially as and for the purpose herein ecified.

No. 36,599.—H. BIEBUYCK, of Brussels, Belgium.—Improved Blasting Powder.—Patent ited October 7, 1862.—The object of this invention is to obtain a slow-burning powder for asting purposes. It is claimed that nitrate of baryta, in combination with charcoal and a nall proportion of saltpetre, accomplishes the desired result.

Claim.—The use in the manufacture of blasting powder of nitrate of baryta, whether com-

ned with nitrate of potash or not, substantially as herein set forth.

No. 36,600.—CHARLES BŒCKH, of Strausburg, France.—Improved Cleaner for Lamp timneys.—Patent dated October 7, 1862.—The drawing and claim will explain the nature this invention.

Claim.—A brush or rubber for cleaning lamp chimneys, the shaft of which being adapted if to one side of the inner portion of the chimney and being covered with some rubbing or ushing material, the brush not being round shape like the common chimney-cleaners in use the present time.

No. 36,601.—S. S. CAMPBELL and JOSIAH GOODWIN, of Philadelphia, Pa.—Improved white for Making Confectionery.—Patent dated October 7, 1862.—The claim and engraving

plain the nature of this invention.

Claim.—The method herein described for filling the boards with starch, or any substance at the impressions can be made in, from a stationary box or hopper, while the boards are sing under, and for smoothing or levelling the starch, or any substance that the boards by be filled with, by means of a stationary strike or smoother, while the boards are in motion, dor moulding or making the impressions in starch, sugar, flour or any composition that a be used in the moulding or making the impressions by means of a lever and springs, and the running, dropping or filling the impressions with any mixture or composition making, called confectionery or candy, that requires to be run or dropped in the way described, by ans of two plates, one working on or over the other, each plate being perforated with les, the top plate working by means of a piston or rod, opening and closing the apertures it filling all the impressions at one and the same time.

No. 36,602.—John Carton, of Utica, N. Y.—Improvement in Railroad Lamps.—Patent ted October 7, 1862.—This invention is designed as an improvement upon a lamp for which stent was granted to the said Carton on May 1, 1860, and it consists in providing a subter which is formed by enlarging the upper end of the outer tube or the cap and then laing it to curve inwards, so that the aperture of the tube or cap shall be about the size of circumference of the wick. At a suitable distance above the wick is placed a button.

Claim.—The outer tube E, the cup thereof forming the chamber H and the bottom B, all structed and operating substantially as described in combination.

No. 36,603.—WILLIAM CLISSOLD. of Dudbridge Works, Stroud, England.—Improved in Machinery for Oiling Wool.—Patent dated October 7, 1862.—Patented in English February 24, 1862.—In this invention a travelling brush or travelling brushes, after record oil from a dipping plate, are made to transfer the same to a roller which is mounted detected apron of the carding engine and presses upon the wool supplied thereto. The last of this oil roller with the wool passing under it insures an equal distribution of the lover the whole surface of the wool.

Claim.—The oiling of wool preparatory to carding the same, by means of a pressure is supplied with the oil or oleaginous mixture by a travelling brush which receives the

from a dipping plate or its equivalent, as above desribed.

No. 36,604.—Russell Cobb, of Hadley, Mich.—Improved Hay and Grain Rack.—Part dated October 7, 1862.—Across the top of the box which, when the grain is carried, servicatch all loose grain, are placed four transverse bars, and on these bars the platform derack frame is placed. This platform consists of two parallel boards as long as the bar when placed in position, considerably wider, which are attached to the two central transverse bar of the platform there is hinged a bar, to which the six end uprofits attached, which are connected by cross-bars. These end frames when not in use car folded down on the platform, but when in use are supported by braces attached to the such the frame by pivots. The advantages of the frame are the simplicity of construction, is said upsument to, and removal from the vehicle.

Claim.—The box A in combination with the platform B, and folding frames C C, all structed and arranged substantially as shown, to form a new and improved has and re-

rack for vehicles as set forth.

No. 36,605.—C. E. EASTON, of Cedarville, N. Y.—Improvement in Fences.—Patent in October 7, 1862.—Each section of the fence has its posts, which rest upon the groundlined in an opposite direction, the posts being connected at their upper ends by a pure order to keep the fence in place and provent it being overturned by the wind, two stakes are driven into the ground on each side of the panels, which are much taller the fence posts, and are connected by tiders placed in the croticles formed by their interest.

fence posts, and are connected by riders placed in the crotches formed by their intersect. Claim.—The combination of the stakes and the riders, with the panels inclined law in opposite directions, as described, when the parts are constructed and arranged in reto each other, substantially as set forth—that is to say, the stakes being independent not attached to the panels forming the lower part of the fence, and the stakes and being so arranged that the latter shall meet over the middle of each panel instead of ends, the riders not being attached to the stakes, but pressing by their weight into the experience of the panel instead of the stakes, but pressing by their weight into the experience of the stakes, and thereby the fence, in position.

No. 36,606.—John Du Bois, of Williamsport, Pa.—Improved Mode of Constructing, and Removing Bridges.—Patent dated October 7, 1862.—This invention is desgrated an improvement in the construction of bridges, by which means the span of the bridge be constructed entire at a distance from the bridge piers, and afterwards brought to be and set in position. By the same means the whole span or section of a span can be reentire and afterwards replaced. A substantial workshop is first erected in the strapiles, between which a floating foundation capable of being raised or sunk is placed; and foundation the side frames of the span are constructed, and then raised to an erect poly sinking the foundation, a chain suspended from the workshop being attached to stringer of the frame. In this way the span is constructed; the floating foundation to be bridge piers and the frame lowered into position.

Claim.—First, a floating foundation, adapted in form, and construction, and oper

substantially as described, to the purposes herein set forth.

Second, the combination of the piles a a, and their attachments e, with the floating addition, so that the side frames of the bridge may be adjusted to a vertical position, so tially as set forth.

Third, the method substantially as herein described of constructing, setting, removing.

replacing a span of a bridge.

No. 36,607.—G. W. ELLIS and C. W. GLIDDEN, of Stoneham, Mass.—Improved Markfor Attaching Heels to Boots and Shoes and Polishing the Same.—Patent dated October 1862.—The boot or shoe is placed upon the last or bed, which is encircled by the strap L that the upper is prevented from interfering with the action of the rods, and the heel. It is the usual manner, is placed in proper position on the sole. In the series of holes plate I are placed nails, their heads resting upon the end of the rods. The holes in the T are also filled with nails, their heads upwards and under the ends v of the plate. The holes in the action of the lever D the shaft c is forced down, while, at the same time, by the case the tube G is forced up, and in this way the nails are driven into the heels, securely in the layers together. By turning the slotted lever Q the hinged knife is made to the heel in proper form, the slot in plate P serving as a guide, the shoe being held in proper tion by the clamps, the jaws of which firmly grasp the upper of the shoe at the jameter.

the heel and sole. The jaws of this clamp are provided with tangs, which pass through the plate N. a projection on the under side of which fits into a slot on the slide L, so that the clamp is forced forward as the jaws are operated by the action of the plate. After the knife has 'nished its work it is removed and the burnishing frame substituted, which is operated in the same manner. The cutter, which is hinged to the plate n, is for the purpose of cutting the inner edge of the heel, and is forced down by the shaft c after the heel is burnished, the gauge preventing it from penetrating the sole of the shoe.

Claim.—First, the perforated plate T, having a shank or neck to fitted to work up and down

n the tube O, which terminates at its lower end in a plate S provided with rods v, the perforated plate being forced downward to hold the heel of the shoe or boot firmly upon its last by a helical spring within the tube, in combination with the last or bed I, sliding tube G, rods k,

and cam H, when arranged for joint operation in the manner and for the purpose described.

Second, the slotted lever Q, fitted upon the tube O, and having a hinged knife R attached to its outer end by a shank or neck s fitted to work in a curved slot q in the plate P, when the whole is combined and arranged to operate in the manner described.

Third the harmonic harmony is a companied with the plate R arranged substantially as

Third, the burnishing frame V, in connexion with the plate P, arranged substantially as

set forth.

Fourth, the strap or guard I', attached to the last I, at its back part, when used in combination with the rods k' for the purpose specified.

Fifth, the clamp M, attached to the slide L, in connexion with the plate N, or its equivalent, when arranged to operate in connexion with the knife R, substantially as and for the purpose specified.

Sixth, the cutter d', provided with a gauge e', attached to the adjustable arm U, which is

connected to the plate s, as and for the purpose herein set forth.

No. 36,608.—J. P. GAGE and J. C. GILBERT, of New York, N. Y.—Improvement in Utilizing the Products of the Asparagus Plant.—Patent dated October 7, 1862.—This invention consists in drying and roasting the seeds of the asparagus plant, and using them as a sub stitute for coffee.

Claim .- The within described preparation, new commodity, or article of manufacture, substantially in the manner and for the purpose set forth.

No. 36,609.—R. R. GASKILL, of Wyanet, Ill.—Improvement in Cultivators.—Patent dated October 7, 1862.—The object of this invention is to obtain a cultivator having its ploughs arranged in such a manner that they may readily be adjusted to plough to a greater or less depth, and at a greater or less distance apart as may be required, and at the same time be capable of being manipulated by the operator either while riding on the machine or walking behind it. Another object of this invention is the breaking or stopping of the wheels of the machine at either side by simple mechanism easily manipulated by the driver, so as to assist the draught pole to turn the machine.

Claim. - First, the plough bars F F, secured to the front cross-bar h of the frame A by means of the double hinges or universal joints a* a*, in combination with the rods G G, fitted in the bearings H connected to the bars F F, and arranged with the adjustable bearings J', as

shown to operate as and for the purpose specified.

Second, the adjustable or movable seat C, when arranged as shown, and used in combination with the bars F F, rods G G, and levers J or K, as and for the purpose set forth.

Third, the swinging or adjustable draught hole D, arranged as shown with the holding lever E, in combination with the brakes formed of the levers O, rods Q, and cranks R, with the shoes S attached, all arranged to operate as and for the purpose set forth.

No. 36,610.—HENRY GLOVER, of Oxford, Mass.—Improvement in Wind Wheels.—Patent da: ed October 7, 1862.—This invention is intended as an improvement in that class of wind malls for which letters patent were granted to Henry Glover July 10, 1860, and it consists in the arrangement of a spider, connected by suitable rods with the lowest slats or shutters of each sail, in combination with spring slat bars attached to the rear side of the several shutters in such a manner that by the action of the spider and slat bars the several shutters are combined, so that by opening one the rest are also opened, and at the same time the shutters are so attached to the shutter bars that they are thrown open by the centrifugal force of the bars when the velocity of the sails exceeds a certain point, the centrifugal force increasing as the bars move out from the centre, and thereby counteracting the increasing force of the springs. The invention also consists in combining with the shutters of each sail an adjustable vane, in such a manner that, if a sudden gust of wind strikes the wheel, or if the force of the wind exceeds a certain limit, the shutters are thrown open and damage to the wheel prevented; it consists, finally, of the arrangement of a serrated disk attached to the rolld shaft which carries the spider, in combination with one or more teeth projecting from the side of the bevel wheel on the hollow shaft which carries the wheel, and with spring pads and suitable levers, in such a manner that by the action of these several parts the slats can be opened at any moment, and the wheel thereby stopped when desired.

Claim.—First, the arrangement of the spider L, rods k, and shutters K, in combination with the spring slat bars k', connecting the several shutters of each sail, and secured to the

rear side of said shutters, substantially as and for the purpose described. Digitized by

Second, the arrangement of the adjustable vanes M', in combination with the shutters K of the wind sails JJ, constructed and operating in the manner and for the purpose specified. Third, the arrangement of the serrated disk N, sliding shaft M, projections s, and spain pads t, in combination with the spider L and shutters K, of the wind sails JJ, constructed

and operating substantially as and for the purpose set forth.

No. 36,611.—ALEXANDER GORDON, of Rochester, N. Y., assignor to JAMES BRAILET and JOHN B. PITTS, of Buffalo, N. Y.—Improvement in Grain Separators.—Patent days

October 7, 1862.—The claim and engraving will explain the nature of this invention.

Claim.—In combination with a straw belt or raddle, having a shake motion communicate to it, a rack or series of slats, placed within the straw belt, for the purpose of preventing the straw from working through and getting back into the machine, but without prevening the grains from going through, substantially as described and represented.

No. 36,612.—J. F. GRIFFEN, of New York, N. Y.—Improvement in Fruit Jans.—Patent dated October 7, 1862.-Two or more lugs project from the sides of the neck of the jar, university of the last of t which is placed a ring having inclined planes and provided with elastic arms which prost over the cover. By turning the ring the cover is brought down closely upon and score firmly to the neck, the clasticity of the arms giving a yielding pressure, and allowing a uch joint to be obtained without danger of breaking the cover or lugs.

Claim.—A jar top, that is composed of one or more arms c, extending to or beyond the centre of the cover C and of a ring D, with inclined planes b, the whole combined as shows

and described.

No. 36,613.—James Hageman, of Williamsburg, Ohio.—Improvement in Buckets of Measures.—Patent dated October 7, 1862.—This invention consists of the peculiar constrution of the wooden bottom of buckets or measures, otherwise constructed of metal.

Claim.—The wooden bottom when bound around the edge with metal, and attached to the

body of the bucket or measure, in the manner and for the purpose set forth.

No. 36,614.—R. W. Hale, of Boston, Mass.—Improvement in Feed-Water Healing Apparatus—Patent dated October 7, 1862.—This invention consists in passing a portion of the exhaust steam through a metallic pipe which is surrounded by a second pipe of non-conducing material of a size slightly larger than the steam pipe, the feed-water being caused to pass in another sheet through the space between the two pipes on its way to the boiler, whereby to supply the boiler with hot water immediately after the engine is started, and to do this with but little loss by evaporation or otherwise, and by the consumption of but a main

portion of the exhaust steam.

Claim.—The method herein described of heating the feed-water of steam engines to means of an exhaust steam pipe and a surrounding water pipe, combined and operating in

the manner set forth for the purpose specified.

No. 36,615.—J. HODSKINSON and O. C. SMITH, of Salem, Mass.—Improved Washing and Wringing Machine.—Patent dated October 7, 1862.—This invention consists in the employment or use of an endless apron, pressure rollers, and a reciprocating rubber, arranged in such a manner that the clothes may be subjected to a requisite degree of rubbing in order to cleanse them thoroughly from dirt, and then be subjected to a sufficient pressure between rollers, so as to have the moisture expelled from them, the washing and wringing operations being performed consecutively and by a continuous operation of the machine.

Claim.—The reciprocating rubber E, in combination with the endless apron H and rollers.

I J L and O, arranged in connexion with the frame A and F, to operate as and for the pur-

pose herein set forth.

No. 36,616.—D. W. G. HUMPHREY, of Chelsea, Mass.—Improved Button-Hole Stitch—Patent dated October 7, 1862.—Reference to the description and drawing will be necessary for an understanding of this invention.

Claim.—The button-hole or edge-finished stitch, made from two threads and interlooped

substantially as described.

No. 36,617.—D. W. G. HUMPHREY, of Chelsea, Mass.—Improvement in Sexing Mechines.—Patent dated October 7, 1862.—This invention will not admit of a brief description:

its general features will be understood from the claim.

Claim.—First, the needle-bar carrier C operated as described, whereby a regular large. motion is imparted to needle a, carrying it alternately through and over the edge of the ma-

terial worked upon, to form an edge finish or button-hole stitch.

Second, the combination of the needle-bar carrier C, the loop carrier d, needle b, hook a and loop check i, with needle a, arranged and operated as described, whereby the button

hole stitch represented is produced.

Third, the cam wheel We employed to feed the material to be stitched, when such material is held and directed by or acted upon through plates, clamps, or their equivalents, the said cam wheel being moved by any suitable mechanism. Digitized by GOOGIC

Fourth, the slotted plate V, for the purpose of giving direction to the feed clamp in stitching any form of button hole, in combination with the cam wheel Wc, for the purpose of

moving the said feed clamp, both arranged and operating substantially as specified.

Fifth, the feed clamp K2, constructed substantially as described, for the purpose of holding the material to be worked upon while it is being fed and directed by the cam wheel Wc,

in combination with the slotted plate V, or by any other suitable mechanism.

Sixth, the employment of the rocker X, piston e2, adjustable plate Y3, and spring r2, in combination with the lever T, operated as and for the purpose specified.

No. 35,618.—CLARENCE LINDEN, of Eden Township, Ill.—Improved Atmospheric Air Bed and Knapsack.—Patent dated October 7, 1862.—This air bed is provided with an outside cover of enamelled cloth or leather cut longer or wider than the bed, so that the ends and sides fold over it. When the bed is uninflated it can be folded in such a manner as to form a knapsack, and is provided with straps to enable it to be worn as such.

Claim.—As a new article of manufacture, the clastic air bed, constructed so as to be carried and used as a knapsack when constructed, and its parts, relatively to each other, all

arranged as and for the purpose specified.

No. 36,619.—Joseph Marks and Richard Eaton, of Hamilton, Canada.—Improved Spark Arrester.—Patent dated October 7, 1862.—This invention consists in the use of two or more conical diaphragms of gauze-wire netting or perforated plates held at a convenient distance from each other in the stack. Also, in the use of a central cone, by means of which the sparks which escape through the lower nettings are allowed to return into the chimney, and by the action of the exhaust steam are further reduced in size and extinguished before

being finally ejected into the atmosphere.

Claim.—First, the perforated or gauze cones B B and C C, in combination with the outer shell of the smoke stack, when the former is arranged within the latter as described.

Second, the double cone pieces D arranged in the lower open end of the perforated or gauze cone B B, so as to deflect a portion of the sparks which escape through the perforation. tions or meshes of the cone B B through an annular space at the bottom thereof into and against the inner sides of the chimney or smoke stack, substantially as described.

No. 36,620.-J. G. PERRY, of South Kingston, R. I.-Improvement in Pocket Knives .-Patent dated October 7, 1862.—The handle of this knife is without a back spring, and the two parts of the back are attached together at one end by a rivet passing through them and the shank of the blade. The sides of the handle are kept apart by a block attached to the inside of one part at its lower end. A staple also projects from the same side above the block into a recess in the opposite half handle, and through this passes a bolt placed between the metal lining and outside covering and attached to the escutcheon. In this way the handles are secured together, but can readily be disconnected by moving the escutcheon towards the blade.

Claim.—The combination of the bolt with the escutcheon or name piece, substantially as described and for the purpose set forth.

No. 36,621.—T. R. PICKERING, of New York, N. Y.—Improved Centrifugal Governors.— Patent dated October 7, 1862.—The object of this invention is to obtain the requisite centrifugal force and stiffness without making the spring too heavy, and consists in the peculiar construction of the spring, and also the shape of the curve given it by the manner in which the ends are attached. Upon the spindle of the governor, and also on the sleeve, is a broad deep flange having a cylindrical periphery, and having on its outer surface grooves parallel with its axis, in which the ends of the springs, which consist of straight narrow plates of steel, are attached and secured by the circular collar, a longitudinal movement being prevented by riveting the ends to the flange and collar. Upon the centre of the spring is placed the ball, which is secured there by passing the spring through straight plugs, which are screwed into a hole passing through the vertical axis of the ball. The ends of the springs and the middle portion are thus made straight, the curve being a double cyma, which form offers yreat resistance to the centrifugal force of the balls in comparison with the thickness of the stiel springs. The leaves which are attached to the springs at their sides and centres give it strength to prevent fracture at those points.

Claim.—The employment of the collar E with the spring ends and the flanch B, as and

for the purpose herein shown and described.

Second, the combination of the leaves g h with the spring D, as and for the purpose herein shown and described.

Third, the employment of the central plugs c e, in combination with the balls F and springs D, in the manner and for the purpose herein shown and described.

No. 36,622.—ELIAS RHOADES, Sr., of Clyde, Ohio.—Improvement in Pumps.—Patent dated October 7, 1862.—The barrel or cylinder of the pump is provided at each end with a narrow rim projecting inwards to form seats for the valves. Perforated heads are attached to each end of the cylinder in such a way as to leave a space between them and the rim of ledge, the perforations being placed near the outer margin of the heads. Between the heads

and ledges of the cylinder are disk valves perforated with holes placed in a circle of small a diameter than that of the holes in the heads, so that when either valve rests against the test the holes of one head are closed by the outer margin of the valve. The piston red is not hollow, and serves as a conducting pipe. Its lower end expands when it joins the diaphramand is provided with openings and flap valves.

Claim.—The disk valves D, perforated heads B, and ledges a in combination with the hollow piston rod G and valves m, and openings o, when these several parts are construent arranged and operated in connexion with the cylinder A, as and for the purpose specific

No. 33.623.—H. C. SERGEANT, of New York, N. Y.—Improvement in Steam Pasite-Patent dated October 7, 1862.—The nature of this invention consists in placing the wall shaft between the heads of the steam and pump cylinders just above or below the pisters: and revolving it by means of two cranks and side rods, the power being obtained from thack end of either the steam or pump cylinder.

back end of either the steam or pump cylinder.

Claim.—The arrangement of the steam and pump cylinders, balance-wheel shaft,

and connecting rods, as specified in the foregoing specification.

No. 36,624.—T. F. ROWLAND, of Green Point, N. Y.—Improvement in Machines for Planing Metals.—Patent dated October 7, 1862.—The bar to be planed is placed upon a sliding bed between the spring bits and moved along the side cutters planing the sides of above simultaneously.

Claim.—Fitting the cutters C within the uprights b, in the manner herein shown 22

described

No. 36,625.—F. S. ROBINSON, of Boston, Mass.—Improvement in Machines for Separatus Cotton Waste.—Patent dated October 7, 1862.—The claim and engraving explain the nature of this invention.

Claim.—The combination of the supporting bar D, one or more series, F F G, of teriappiled to a rotary carrier as specified,) and mechanism by which each range of teethele be caused, during the revolution of the carrier, to seize the waste as it may project from bar D, and draw it out therefrom, and separate it more or less, and subsequently ket go it in the manner substantially as hereinbefore explained.

No. 36,626.—S. H. Sugett, of Eden, Maine.—Instrument for Reaming Out the Barrie of Ships' Pumps.—Patent dated October 7, 1862.—This instrument is designed to be useful reaming out the barrels of ships' pumps when they are so worn that the plungers will to operate. It can be used without removing the barrel, and consists of a piston turnelly handle at its top, having near the bottom a chamber closed at the bottom by a remove plate and communicating with the outside of an elongated opening, in front of which is implate and cutter. The cutter is similar to that of a spoke-shave and capable of being aligned at different angles, so as to make a heavy or light cut. The shavings made by the cutter pass into the chamber, and are thus prevented from clogging the barrel.

Claim.—The reaming instrument with its cutter i, chamber b, and movable plate s, ::

whole being arranged substantially as set forth for the purpose specified.

No. 36,627.—J. C. Thomson, of Buffalo, N. Y.—Improvement in Apparatus for the Manufacture of Illuminating Gas.—Patent dated October 7, 1862.—The compound reconsist of two conical vessels placed one within the other, separated by an annular space on it a pipe or chamber, which communicates with the part under the grating, and also has conical pipe. In the lower part of this chamber is a piece of brick placed at an angle. A fact attached to the top of the inner retort forms the cover of the outer retort, and the decision pipe. The lower diverse of the inner retort is connected to the annular space by V-shaped cavities; the variest chambers, with the exception of the part under the grating, having been filled with object thus converted into permanent gases and hydro-carbon vapors, which pass into the grating surface in the chamber into which water is conducted. The globules, acting of calalysis, convert the vapors into permanent gases, which pass with the vapor and with through the grating into the chamber filled with red-hot coke, where they are further composed, and thence pass through the eduction pipes into the washer.

composed, and thence pass through the eduction pipes into the washer.

Claim.—A compound retort D D' containing three chambers fg h, constructed, arranged used (either vertically or horizontally) for the purposes and substantially as herein set:

No. 36,623.—G. J. WASHBURN, of Worcester, Mass.—Improvement in Annealing in and Steel Wire, &c.—Patent dated October 7, 1862.—The object of this invention is to a means for annealing wire in such a manner that it will prevent it from being oxide in sealed," and hence it will not be required to be exposed to the injurious acid bath. The is effected by placing the wire in a vessel provided with pipes or cocks, so that the air can be displaced by some non-oxydizable gas.

Claim.—In the process of annealing wire or other articles, the use of such an artificial atmosphere or gas, or mixture of gases, in the annealing pot or vessel, as will enable me to control the degree of oxidation of the iron or steel being annealed, or to prevent oxidation entirely, substantially in the manner herein described.

No. 35,629.—G. B. Wiggin and J. W. Hoard, of Providence, R. I.—Improvement in Nail Machines.—Patent dated October 7, 1862.—The inventors say: These improvements are more especially applicable in connexion with a double set of cutters and heading devices, and of a feeder which operates in combination therewith to provide for the cutting of the nails with a proper degree of taper without turning over the plate, but some of them are or may be applicable with equal advantage in machines which have but a single set of cutting and heading devices, and which turn over the plate between the successive cutting operations. The improvements relate to the heading apparatus and to the feeder. Claim.—First, the combination of the heading die levers O O*, stirrups jj^* , and toggles kk^* , with the oscillating cutter-head F, in the manner herein shown and described. Second, so applying the heading dies N N*, in the form of plungers, that they may be free

Third, the employment, for drawing back the heading dies N N*, of hooks l l* attached to the heading levers O O*, and arranged to operate substantially as described upon flanges ** provided on the said dies, for the purpose of turning them.

Fourth, the arrangement of the single pair of nippers D D' to operate in combination with the two sets of holding dies, substantially as herein specified.

Lifth supporting the whole of the feeder in a carriage R S. composed of a transversely-

Fifth, supporting the whole of the feeder in a carriage R S, composed of a transverselymoving slide R and a standard S pivoted to the said slide, substantially as herein specified. Sixth, the opening of the tongs by means of two pins v v arranged to operate substantially as herein set forth.

Seventh, so applying the guides TT, in combination with the carriage of the feeder, as to permit them to be raised up high enough to allow the feeder to be turned away from the cut-

ters, substantially as and for the purpose herein specified.

No. 36,630.—LUMAN ANDREWS, of De Kalb, Ill., assignor to Himself and PHINEAS STEVENS, of the same place.—Improvement in Telegraph Cables.—Patent dated October 7, 1862.—This invention consists of a device to be used in the construction of submarine telegraphic cables for preventing the breaking of the same by allowing the cable, when any pressure may be applied to it, as by the anchor of a vessel, to stretch or yield, and so tend to prevent the cable from breaking.

Claim.—In combination with the cylinder A and the valves B B' the sliding joint m n in

the cable a, constructed and operating substantially as set forth. Second, the arrangement of the cylinder A, the movable rings C C', and wires b b, in combination with the sliding joint m n, operating as described.

No. 36,631.—EDWIN BLACKMAN, of Danbury, Conn., assignor to Himself and J. S. TAYLOR, of the same place.—Improvement in Self-weighing Carts.—Patent dated October 7, 1852.—The platform under the body is-connected to a steelyard by a knife-edge pivot, and the steelyard is connected to the journal boxes in the same way. The steelyard F, under the tongue, is connected in the same manner to the prop, and is also connected at its extremity to a metallic bearing. When the cart is in motion the prop and platform are turned out of the way, but these when turned down are sufficiently long to raise the wheels off the ground, so that the pivots of the props form the fulcra, the body and tongue being the weight, the counterpoise being placed on the steelyards.

Claim.—The steelyard E and platform C, in combination with steelyard F and prop D, (or spring scales suspended from the cattle,) when constructed and applied to a cart sub-

stantially in the manner and for the purposes hereinbefore set forth.

No. 36,632.—A. H. Perkins, of Janesville, Wis., assignor to Himself and J. M. May, of the same place.—Improved Process of Treating Coal Tar to Manufacture Roofing Coment.—Patent dated October 7, 1862.—This invention consists of a process of forming a coment from coal-tar by igniting the tar on its surface, and at the same time agitating it. By this process the lighter portions are consumed and evaporated.

Claim.—The new process herein described of treating coal-tar to form a cement material, for the purposes set forth.

No. 36,633.—G. L. WITSIL, of Philadelphia, Pa., assignor to Himself and THOMAS COCH-

RAN, of the same place.—Improved Apparatus for Stirring and Mizing.—Patent dated October 7, 1862.—This invention is explained by the claim and engraving.

Claim.—Two or more spiral rods or bars contained in a vessel of suitable form, one spiral rod being left handed and the other right handed, or the rods being otherwise so arranged, and caused to so revolve as to produce separate currents in and a thorough agitation and admixture of the contents of the vessel, in the manner specified.

No. 36,634.—L. A. ASPINWALL, of Ireland's Corners, N. Y.—Improvement in Median for Planting Potatoes.—Patent dated October 14, 1862.—The trap-doors which closed openings are provided with pins which extend down from the bottoms of the doors the slots in the bottom plate of the cylinder and in the bottom of the machine. These may kept shut during the rotation; the openings pass over the solid parts of the bottom plants of fall open successively as they come over the openings, thus permitting the potatoes local at the proper time, and preventing them from being crushed between the plate and the opening

-First, the box or magazine to contain the seed potatoes, having a hollow of the Claim.revolving bottom, with openings in its upper and lower plates for the passage of the addown into the ground; the openings in the upper plate being provided with a gage late their size, also with trap-doors, operating automatically, to protect the postates for jury, and regulate their passage through the hollow bottom, substantially as decili-

this specification.

Second, the combination of the box or magazine, so constructed and fitted as described with the gearing for revolving the bottom, and with the plough and scraper, substitute. as set forth in the specification.

No. 36,635.—A. B. BAILEY, of Middle Haddam, Conn.—Improvement in Capi for Con. Screws.—Patent dated October 14, 1862.—The flat ear when the cap is closed passes the slit, and within the prominence, and bears against it with a slight upward prosect thus forming a light and firm joint.

Claim.—The flat ear or lug d of the cap B, in combination with the slitted prominent.

on the base A, when arranged as shown, to form a new and improved catch or fastein;

an ornamental cap for coffin screws, as herein set forth.

No. 36,636.—ZACHARIAH BAKER, of Erie, Ill.—Improvement in Tanning.—Patent October 14, 1862.—The nature of this invention will be understood from the claim.

Claim.—The use of the oats and barley chopped (unbolted) in connexion with the sales.

a bath, as combined and in the proportions set forth in my specification, and also the use a tanning compound composed of the smart-weed, May weed, oxalic acid, kine, carepotash and red sanders, as combined and in the proportions subtantially as set format mentioned in my specification.

No. 36,637.—Robert Barclay, of Buffalo, N. Y.—Improvement in Chronometer Lucip ments.—Patent dated October 14, 1862.—This invention consists in substituting for the engraving and acted upon by a spring of any length which at one end is attached to since the while it also presses the pallet into the escape-wheel, as far as permitted by the pin.

Claim.—The arm k made with a toe i, the pallet of repose e, and the spring j, the since

applied in combination with each other and with the escape-wheel and lifting pallet in

stantially as and for the purpose herein specified.

No. 36,638.—A. M. BEEBE, of West Bloomfield, N. Y.—Improvement in Whiflarmi-Patent dated October 14, 1862.—This invention consists of the arrangement of the cruz. with the whiffletrees, as shown in the engraving, in a system for three horses when the abreast in such a manner as to place the whiffletrees exactly on a line with each other, allowing the tugs of all the horses to be of equal length and affording each horse an rucentral shaft.

Claim.—The combination and arrangement of the equalizing eveners AB and D with whiffletrees a b and d, for three-horse teams, substantially in the manner specified.

No. 36,639.—WILLIAM BICKEL, of Pottsville, Pa.—Improvement in Stores.—Patent October 14, 1862.—The object of this invention is to facilitate the burning of very him the in stoves and furnaces, and consists in introducing air into the body of the coal fire let such a manner as to insure a circulation of air through the entire mass and the perfect obustion of the whole.

Claim.—The employment or use of an air chest D, placed centrally in the fireplant. stove or furnace, communicating with the ash box thereof, and provided with horizontal F, in combination with tubes G, attached to the sides of the body of the stove or it.

and communicating with the external air, substantially as and for the purpose herein set.

Also, the valve I, placed within the air chest D, and the covers or slides H, applied to outer ende of the tubes C. for the name of the tubes C. outer ends of the tubes G, for the purpose of regulating the admission of air into the faras specified.

Further, the triangular form of the tubes F G, and the inclined ends, when used as for the purpose herein set forth.

No. 36.640.—L. G. BRADFORD, of Plymouth, Mass.—Improved Apparatus for Leather of acks.—Putont dated October 14, 1993. Tacks.—Patent dated October 14, 1862.—The tacks pass from a hopper along an inc.

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guide until they come in contact with the separator, having a notch in its extremity in which the tack fits, and having a reciprocating movement over the stand C. given it by means of one end of a lever attached to its extremity while the other end moves in a cam groove on a pulley F. Upon the upper surface of the separator is a latch pivoted to the a and, and having in it a groove in which moves a pin upon the separator, and thus gives mot. I sufficient to throw the latch out of the notch of the separator when by its forward motion it is carried to the mouth of the receptacle.

Claim.—First, the application and use of the horizontal reciprocating separator D, for taking the tacks singly from the foot of the inclined guide plane, and carrying then to the receiving dies or other receptacle for holding the tacks during the process of being driven the rugh

the leather or other material.

Second, the combination with the reciprocating separator of the self-acting latch b, for throwing or removing the tacks from the notch a, or its equivalent.

No. 36,641.—LAZARE CANTEL, of New York, N. Y.—Improved Canteen.—Patent dated October 14, 1862.—This invention consists in lining leather canteens with tinfoil or other metal which will not be acted upon by the liquid contents, said foil being cemented to the leather so as to adhere firmly.

Claim .- The lining of metal to the leather canteen, applied substantially as specified.

No. 36,642.—JOSEPH CHASE, of Lowel, Mass.—Improvement in Machines for Cutting Flocks.—Patent dated October 14, 1862.—This invention is an improvement in the construction of ordinary flock machines, and consists in arranging over the stationary knife and opposite the knife cylinder an inclined plate which serves to direct the flock to the collars, and retain it thereon, and thus secure an uniform supply.

Claim.—The plate I, placed within the cylinder A, and arranged relatively with the knife

cylinder D, to operate as and for the purpose herein set forth.

No. 36,643.—J. E. CULVER, of Hudson, N. J.—Improvement in Steam Generating Appearatus.—Patent dated October 14, 1862.—The object of this invention is to obtain a combination of steam and gaseous products of combustion at as low a temperature as posible, and thereby not only obviate the difficulties attendant upon the use of steam and gases at a high temperature, but to generate the greatest quantity of steam attainable from a combus-tion of a given quantity of fuel. The furnace is placed within the boiler and communicates with the external air by means of two openings, through one of which coal is introduced, and through the other ashes taken out. Air is forced in the upper opening and passes downwards through the diaphram into the fire-box. The heated gases from the combustion are thus forced into the air space between the outer and inner shell of the furnace and thence through the outlet into and through the system of flues which are submerged in the water contained in the boiler, and finally escape through minute orifices in the lower flues, rises up through the water, and is mingled with the steam. Reticulated diaphrams being placed across the boiler in order to subdivide the bubbles, the gases in their passage through the flues heat the water sufficiently to generate steam, and thus are reduced to a temperature low enough to combine safely and properly with the steam.

Claim.-First, the combination within the boiler of a furnace B, a system of submerged

flues E E, and one or more reticulated diaphrams d, substantially as herein specified.

Second, the furnace B, constructed with internal fire-box C, grate D, disphram M, air inlet a, passages f f, chamber g, and outlet F, the whole arranged substantially as and for the

purpose herein specified.

Third, the combination of the boiler A, furnace B, fire-box C, grate D, diaphram M, air inlet a, passages f f, chamber g, outlet F F, and flues E E, the whole constructed and arranged to operate substantially as herein specified.

No. 36,644.—JACOB DELONG, of Covert, N. Y.—Improvement in Harrows.—Patent dated October 14, 1862.—The nature of this invention will be understood from the claim and enraving.

Claim.—The bars a a, arranged or disposed so as to cross each other at right angles, in ombination with the teeth C and the sockets D E, the teeth passing through the sockets ind bars, and the sockets adjusted to the bars and made to clamp the same by means of the crews or bolts d which fit in the angles with the bars, substantially as and for the purpose erein set forth.

No. :6,645.-H. H. ELWELL, of South Norwalk, Conn.-Improvement in Locks.-Patent ated October 14, 1862.—The object of this invention is to obtain a lock which can be used qually well on right or left-hand doors. The latch or catch bolt is made with two bevels, aving reverse angles, and situated one above the other, with a space between. The nosing made with two slots, and at different distances from the end and corresponding to the situations of both bevels. When the lock is used, one or other of the bevels, according to whether he door is right or left handed, slips into the slot in the strike, while the other enters the strike s in ordinary locks.

Claim.—Having the bevels a a' arranged one above the other upon the bolt B, so that the inclined surface of each bevel will extend entirely across the face of the bolt, all as set forth.

No. 36,646.—S. MUEL FRETZ, of Buckeye, Ohio.—Improved Hand Seed-Dropping Detac.—Patent dated O tober 14, 1862.—This invention consists in combining a slide with a seed but lever, spring, and seed slide in such a manner that by pressing the implement down on the

ground the slide will be forced upward, and the seed slide actuated through the medium of use lever and spring.

Claim.—The combination of the slide C, lever D, seed slide E, and spring F, all arranged and applied to the box A provided with the cut-off a', to operate as and for the purpose here. set forth.

No. 36,647.—WILLIAM GILFILLAN, of Syracuse, N. Y.—Improvement in Devices for Clas-, ing Gates.—Patent dated October 14, 1862.—Upon a standard attached to the door post pivoted the double cam, to one end of which is fastened a cord which passes over the cam E and connects it with a stud on the door. The other end of the cam is connected by a suitable elastic cord with some point on the side of the door frame. When the door is opened the corl B, acting on the end of the cam E, causes the other cam to draw on the elastic cord, at though the tension of this is increased by opening the door, the rotation of the cam diminished the leverage and thus causes the force to decrease as the door is opened.

Claim.—The employment of the double cam F G for the purpose of graduating the force

applied to the door, constructed and arranged substantially as set forth.

No. 36,648.—Freeman Godfrey, of Grand Rapids, Mich.—Improvement in Stump Ertractors.—Patent dated October 14, 1862.—When the ropes to which the team is attached commence to draw from the circumference of the fusees, the chain attached to the stump's over the smallest part of the grooved cone, and as the ropes are unwound and the lever conductive decreases, the leverage on the cone increases. By this means the greatest effective power is applied at the commencement of the operation, at which time the greatest power is required. but as the resistance of the stump decreases, the power of resistance also decreases, and, conquently, an increase of velocity is obtained.

Claim.—The spirally-grooved truncated cone C, provided with a journal bearing at Grand, and having rigidly secured upon it at one end a bevel gear wheel D, in combination with the bevel pinions a a, shafts E E and fusees or spirally-grooved wheels G G, when arrangel to

operate in the manner and for the purpose specified.

No. 36,649.—Peter Hayden, of Pittsburg, Pa.—Improvement in Lamps.—Patent detail October 14, 1862.—The wire class is hinged in the middle to the chimney ring and extends alone. two-thards around, so as to clasp and secure it firmly. It can, when desired, be throws and cut of the way so as to permit the detachment of the chimney.

*Coaim.**—A wire clasp extending about two-thirds around the chimney ring, shaped and

operating as described.

No. 36,650.—R. P. HENRY, of Akron, Ohio.—Improved Machine for Scenning Marks and Freestone.—Patent dated October 14, 1862.—This machine is laid flat upon the stone and a reciprocating and semi-rotary motion given it by means of the pitman. The sand, which is placed in a funnel-shaped vessel, falls upon the convex distributor placed under it; thus it is directed to the circumference of the central opening or eye, when it mingles with water flowing out from a proper aperture, and then worked under the bottom of the machine by means of the grooves.

Claim.—First, constructing a machine for scouring marble and freestone, with a vessel or holding water, in combination with a central vessel for holding sand, substantially as and ix

the purposes described.

Second, the use and employment of a funnel-shaped vessel, fitted to the eye of the machine and opening into it, for holding dry sand and delivering it upon the stone, substantially as set

Third, the combination with the central sand receptacle of the convex distributor C Fourth, the combination of the curved grooves D with the central eye C, substantially set forth.

No. 36,651.—A. P. HOPKINS, of Bentleysville, Pa.—Improved Fence for Sheep Felds.—Patent dated October 14, 1862.—The square posts of which this fence is constructed are previded with sharp picket ends and are set diagonally or with two angles contiguous, while tween the posts are sharp trap irons, as shown in the engraving. It is designed more expecially for sheep folds, and by its peculiar construction is an efficient protection from dogs, who will not jump a fence unless it affords some support for the hind legs during the act. In case the dog should attempt to jump he would slip off the sharp ends and be caught by the are legs in the trap.

Claim.—Constructing fences with posts A and trap irons c, substantially in the manner and

for the purpose set forth.

No. 36,652.—John Jacobs, of Columbus, Ohio.—Holder for Pens, Pencils, &c.—Patent dated October 14, 1862.—The claim and engraving explain the nature of this invention.

Claim.—A tubular penholder, adapted to receive the human finger into or through it, and a writing pen, pencil, or brush upon its outer surface, and to maintain its place upon the finger, and to support and confine the pen, pencil, or brush in position during the operation of writing, marking, or coloring, substantially as set forth.

No. 36.653.—CHARLES KATHAN, of Hardin, Iowa.—Improvement in Grain Separators.—Patent dated Ocrober 14, 1863.—The slide placed under the fixed side of the hopper is retained by suitable guides, and has a reciprocating movement given it by means of a system of evers connected with the shaft of the fan wheel, so that it passes intermittently below the lower edge of the fixed side of the hopper, and thus prevent the discharge orifice from being clogged. Under the hopper, but a little in advance, is the shoe provided with the inclined clogged. Under the nopper, but a little in suvanice, is not show provided with lever F. Grain falls sieves, to which a lateral shake motion is given by connecting it with lever F. Grain falls from the hopper upon those sieves, where all light impurities are blown away by the blast from the fan, and the lighter and inferior portions of the grain, passing through the screens near their lower ends, fall upon the screen O under it and the shoe I. The better grain falls on the shoe J, having a simultaneous movement with H, where, by the screw L, the oats are removed and sift the inferior grain, all passing into trough Q. The adjustable board allows a greater or less portion of grain to fall from screen I upon screen b, as its quality may require.

*Claim.—First, the slide D placed underneath the fixed slide b of the hopper C, arranged and

operated substantially as shown, for the purpose herein specified.

Second, the two shoes E, provided, respectively, one with the sieve I and the other with the

screen L and sieve M, and connected together so as to be operated simultaneously by the same mechanism, in combination with the fan B and adjustable board T, all arranged as and for the purpose herein set forth.

No. 36,654.—I. A. KETCHAM, of Brooklyn, N. Y.—Improved Apparatus for Operating Submarine Batteries.—Patent dated October 14, 1862.—This invention consists of an apparatus by means of which an explosive shell or battery may be projected from the side, bow, or stem of a vessel, in any direction or position under the surface of the water, and exploded while it is held beneath, or after it has been left under the object which it is desired to destroy.

Claim.—First, advancing a submarine battery and adjusting it to any suitable position to be exploded by means of a sliding rod C, substantially as and for the purposes described.

Second, passing the rod C through a universal joint, substantially as described, to enable its adjustment to any position desired, and relieve the battery and rod from any effect by the rocking or rolling of the vessel.

Third, the casing A and sliding gate B, employed in the manner explained, to constitute a closable water-tight compartment for the reception and attachment of the battery.

No. 36,655.—J. W. KOEHLER and FREDERICK RICHARDS, of Decatur, Ill.—Improvement in Wind Wheels.—Patent dated October 14, 1862.—This invention consists in the application of a cap and shield to a wind wheel, arranged in such a manner that only a portion of the whoel is exposed to the action of the wind, which is thus made to act on the wheel in the most favorable manner for driving the machinery. Attached to this cap is a projecting arm, having at its extremity two rods, which can, by being braced upon the annular platform H under them, retain the cap in any desired position, so as to expose a greater or less number of buckets to the wind, and thus regulate the speed. The adjustable vane admits of being turned down when not required for use.

Claim.—First, the cap or shield D when applied to and used in combination with a horizontal wind wheel C, substantially as and for the purpose set forth.

Second, the horizontal, circular, or annular platform H applied to the framing A', in combi nation with the pendant bar (I and rods e e, arranged as shown, for the purpose of adjusting the cap or shield, and retaining it relatively with the wind and the exposed buckets of the wheel C, to regulate the speed thereof, as described.

Third, the hinged or adjustable vane F, in combination with the rotating and adjustable cap or shield D and wheel C, as and for the purpose specified.

No. 36,656.—L. J. Knowles, of Warren, Mass.—Improved Apparatus for Operating Submarine Butteries.—Patent dated October 14, 1832.—The piston I, moving in the cylinder J, has attached to it an ordinary slide valve which moves backward and forward in the steam chest. Extending from this steam chest into the cylinder J are the steam ports a a and exhaust ports b b, extend from the cylinder into the exhaust pipe. The piston rod of the piston I plays freely through the head of the vertical arm attached to the main piston rod, and on said head are inclined faces which bear against the edge of the tappets on the rod c so as to give it a slight rotary motion. The steam, entering in front of piston B, forces it backward, and thus a rotary motion is given to piston I so as to bring the ports h h', one over exhaust port b, the other over steam port a', thus exhausting steam from space p, and admitting it so as to force the piston forward and operate slide valve H.

Claim.—Operating the slide valve H by means of a piston I, or its equivalent, which is just brought into a proper position to take steam, substantially as described, by a partial rotary motion derived from the engine, and which is then driven by the steam independently of the engine, substantially in the manner described.

Also, the employment of oblique opening or ports h h', in combination with the piscal and the steam passages of its cylinder, substantially as and for the purposes set forth

No. 36,657.—PETER LAMB, of Cincinnati, Ohio.—Improvement in Car Trucks.—Page: dated October 14, 1862.—The object of this invention is to economize in the application steel springs to car trucks, and at the same time obtain a truck that will have greater excity than the ordinary ones, and be capable of running more easily and smoothly over use track. It also enables the shoe bars to yield readily to the break mechanism.

The invention consists in a novel construction of the car truck, whereby two springs are most to answer for the truck instead of four hitherto used. The invention also consists in a novel way of suspending the shoe bars to the truck, whereby the former may be readily attached

and detached from the latter.

Claim.—First, constructing the car truck of two parts connected together by springs D D.

arranged substantially as herein described.

Second, attaching the springs D D to bars C, which are connected at their ends by links B. rods d, which pass through pendents b, and have nuts c on them, for the purpose of regular ing the tension of the springs, as set forth.

Third, securing the links I to the shoe bars H, and cross bars i of the truck, by means of

sockets J, provided with recesses k and slides l, arranged as herein described.

No. 36,658.—J. S. Lash, of Carlisle, Pa.—Improved Washing and Wringing Machine.—Patent dated October 14, 1862.—This invention is designed to combine in one machine a washe and wringer. It consists of a box mounted upon legs, having part of its bottom inclined, and rest somewhat lower and level, forming a tub. In bearings on the sides of the tub are same of rollers, above which is the reciprocating rubber, consisting of a flat board with round an ailed on its under surface. Each side of this board is connected by elastic bars d. with cross bar which moves in grooves in the sides of the box parallel with the inclined by The handle E consists of a cross bar connected by suitable supports to the rubber. The i --G has a vertical play in the frame on the tub end of the box, and has an opening through we : passes the shaft of the rollers S S', which have their bearing in the upright H. The trace of can be elevated or depressed by lever R and pitman O, and thus is made to regulate the xsure of the rollers.

Claim.—The gate or movable frame G, the pitman O, the lever R, the roller S, the ruble C the springs d d, the grooves f f, and the rollers g g, the whole arranged in the manner of the purpose herein fully set forth and described.

No. 36,659.—WILLIAM JONES, of Rochester, N. J.—Improvement in Coal Sifters.—Pair: dated October 14, 1862.—Under the drawers are placed the bars E, with their ends timeloosely into the front and rear sills, and which are somewhat convex on their upper sides > as to bear tightly under the centre of the drawers, when the front end of the bar is forced up v the tightening screws D, the points of which press against a level shoulder under the kana at that end.

Claim.—Tightening the joints between the draws B and T, and the case A, for the purpow of preventing the escape of dust or ashes from the apparatus during the process of sitting. !! means of the adjusting bars E, which are constructed and arranged substantially in the ner specified, and operated by the set screws D.

No. 36,660.—A. E. LYMAN, of Williamsburg, Mass.—Improvement in Ventilating Coffins.—Patent dated October 14, 1862.—Attached to the coffin is a tube which is connected with an elastic chamber made of India-rubber; and connected with the tube leading from the cuffic. another tube leading to a suitable exit pipe, and also provided with a stop-cock. The expersion of the clastic chamber will indicate the presence of foul air in the coffin, which can, by neulating the stop-cock, be allowed to escape.

Claim.—The indicating ventilator, as herein described and substantially set forth.

Also, the combination and application and arrangement of the aforesaid apparatus and mode of applying the same for purposes as before described and substantially as forth.

No. 36,661.-W. W. MARSII, of St. Louis, Mo.-Improved Device for Raising Water by Steam.—Patent dated October 14, 1862.—The steam syphon consists of a steam pipe, a 3livery pipe and suction pipe, all connected by a T-shaped connexion. The steam pipe page. part way through the connecting pipe and is of smaller diameter than it, so that a space left between the two pipes.

The invention consists in placing opposite at the mouth of the steam pipe a small or which is designed to spread the steam as it issues from the pipe, and thus facilitate the ex-

sion of air.

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Claim.—The combination of the cone b with the pipes C A D, in the manner and for the purpose herein shown and described.

No. 38,662.—W. L. McDowell, of Philadelphia, Pa.—Improvement in Grates for Stoves.—Patent dated October 14, 1862.—The draw bar consists of two parts, one of which is rigidly attached to the grate and extends therefrom, while the other is movable, and when in position is directly over the fixed part and extends across the grate from front to rear in the form of two connecting grate bars. The spaces between the bars are open from front to rear, there being no cross-bar to interfere with the motion of the hooked end of the poker when introduced for raking the fire. A free vibration can be given the grate whether the whole of the draw bar is in place or not, and when the movable portion is withdrawn, sufficient space is left for discharging the cinders, simply by vibrating the grate.

Claim.—The combination of a draw bar with a vibrative grate, so that it shall form a moving

part of the same, and operate substantially as described for the purpose specified.

No. 36,663.—Samuel McElroy, of Brooklyn, N. Y.—Improvement in Hydrants.—Patent dated October 14, 1862.—The shape of this valve is shown in the engraving; it is made of brass or other suitable material with a chamber to take leather or other packing. It is provided with a valve-trunk or cylinder into which a screw on the valve-shaft takes. end of the valve-shaft is attached the bevel-wheel D, into which gears the horizontal wheel E at the end of the rod, properly supported by guides cast on the hydrant tube and adapted at its upper end to receive a hydrant wrench. The valve is supported in its opening and closing motions by lugs cast on each side of chamber A'. The valve seat hub is cast with a chamber to take the valve seat, and is secured to the tube by a face joint, and cast with an expanded hub to have the spigot end of the hydrant pipe connected with the street main.

Claim.—The combination and arrangement of the vertical hydrant tube A, adapted to any form of head, having a base A' charabered to take the valve motion described, with the valve seat hub B, and with the internal movable valve-shaft and valve c c1 c2 c3 operated ex-

ternally, substantially as described.

No. 36,664.—James McIntyre, of New York, N. Y.—Improvement in Compound Explosive Shells.—Patent dated October 14, 1862.—This invention consists in arranging around a rod within an ordinary bombshell a number of grenades or cylinders charged with powder. Near each end of the rod is a head, on which projections at the extremities of the grenades fit, and thus they are held firmly in position. The grenades can be rotated so as to be brought successively under the fuze hole of the bombshell, and then charged, the space between the grenades and shell being then filled with powder and a fuze inserted. When the bombshell is exploded the fuzes of the grenade are ignited, and they are thrown from the shell and explode separately.

and explode separately.

Claim.—The grenades a, introduced between the heads b, and fitted so as to be rotated

upon the shaft or axis c within the bombshell d, as and for the purposes specified.

No. 36,665.—J. R. MILLS, of Bloomfield, Iowa.—Improvement in Pumps.—Patent dated October 14, 1862.—In the middle chamber is a partition separating it from the water in the well, in which is a valve opening upwards. Under the partition is the bridge tree hinged at its back to the backside of the chamber-box, and at its front end suspended by a chain from a hook on the curb above the ground. When the tree is raised by the chain a projection upon it immediately under the valve j raises the valve and allows the water in the middle or discharge chamber to escape into the well, and thereby prevents its freezing in cold weather.

Claim.—The valve j, partition a, bridge tree or lever J, projection m, and rod k, when combined and arranged to operate in the manner and for the purpose specified, and in combination with the above the piston packing, constructed and operating substantially as described.

No. 36,666.—J. O. Montignani, of Albany, N. Y.—Improved Clothes-hanging Apparatus.—Patent dated October 14, 1862.—The pins for suspending garments are attached to a metal shaft pivoted at top and bottom into the frame and cross-bars, so as to allow the pins to be turned into a plane parallel with the bars and within their range. This frame can be attached to a wall by one or two points of support, thus avoiding its defacement, and can easily be removed and packed in a small compass for transportation.

Claim.—A frame having between its bars pins for suspending garments or other articles to fold within the range of the bars, constructed and arranged substantially as described, and

for the purposes set forth in the within specification.

No. 36,667.—T. H. MURPHY, of New Orleans, La.—Improvement in Hemp Brakes.—Patent dated October 14, 1862.—This machine can be constructed double or single, that is, having two separate breaking implements arranged at opposite ends of the feeding apron, so that after one end of the stalks is operated on, by reversing the motion of the feeding table the other half can be brought under the breakers without any change in the position of the fibre. When a single machine is used, the stalks are, by reversing the motion of the table, thrown out from between the rollers, then turned, and the ends of the stalks acted upon. The rotary breaker consists of a wheel having on its periphery projections, and the flexible worker consists of a band passing over pulleys above the breaker, and having on it parallel transverse bars which come in contact with the projections on the wheel. The upper feed roller is mounted in levers; the shaft on one end having three pulleys, two being loose, and one fast; two bands, one straight, the other crossed, connect the main shaft of the breaker with the shaft of the feed roller. The motion of the feed roller, which is connected by a gear-wheel to the roller of the feed table, can be changed when desired.

Claim.—The combination of the reversible aprons d, with two sets of rotary breakers, flexible workers o, and feed rollers a a', all constructed, arranged, and operating substantally in the manner set forth, so as to operate upon opposite ends of the stalks without reversing

their position.

No. 36,668.—J. O. Norton, of Wilton, Ill.—Improvement in Harvesters for Broom Cora—Patent dated October 14, 1862.—This machine is designed for cutting broom-corn at any desired height, and depositing the same when cut in gavels upon the ground. The cutters are first adjusted to the required height from the ground, and the gathering bars and shields adjusted to the cutters and secured by set screws. The reel frame is then set at a proper height and the belt tightened by means of pulleys. The parts are put in motion by the drivers' throwing the pinions in gear, the discharge of corn being governed by his foot acting upon a lever.

Claim.—First, the combination of the horizontal main frame a, driving wheel c, vertical frame f, and rear support y z, constructed and arranged as and for the purpose set forth.

Second, the combination of the cutters i, gatherers j, shields k, and discharging boxes, when arranged, to operate substantially as and for the purpose explained.

Third, the self-opening shutter t, connecting rod v, and foot lever w, when used in the manner described to control the discharge of corn from the inclined boxes s.

No. 36,669.—John Pettengill, of Carrol, N. H.—Improvement in Machines for Digging Potatoes.—Patent dated October 14, 1862.—Under the beam and behind the vertical sides of the machine is a projecting beak, which enters the ground under the potatoes so as to throw them upon the inclined grid C, consisting of a series of bars, and these upon the endless grid or apron which is rotated as the machine is drawn along upon its two spoked wheels by a toobed wheel F engaging with one of them. Here the earth is separated from the potatoes, and they pass off the frame E to the rear of the machine. The deflector attached to the beam just in front of the beak is provided with knives, which cut the vines and force them laterally out of the path of the machine.

Claim.—The horizontal beak or nose b, an inclined plane or grid c, the endless grid D, and the wheel F, on the same, the deflector H, and knives I I, arranged and combined together,

substantially in manner and so as to operate as and for the purpose specified.

No. 36,670.—W. M. RANDALL and G. C. Howard, of Belleville, Ohio.—Bottom for Type Cases.—Patent dated October 14, 1862.—This invention consists in arranging a printer's type case in such a way that each box in the case may be adjusted in relation to the bottom, and that by sliding it down, the type will be elevated to the top of the case, or as high as may be desired by the compositor.

be desired by the compositor.

Claim.—The application to the case A of the bottom B, arranged with blocks c, so as to fill each box N N, in the case A, as described, with the springs D and springs E, and ratched bars F, to operate as set forth, whereby the case may be elevated or depressed, as the convenience of the operator may require, all to be used in combination for the purposes above

named.

No. 36,671.—S. H. RICHARDSON, of Cleveland, Ohio.—Improvement in Stump Puller.—Patent dated October 14, 1862.—This invention consists of a bed-piece having proper supports, between which is placed a lever on a pivoted fulcrum. One end of this lever is bent, and has attached to it a hook which can be placed under the stump. The other or long end of the lever is provided with a pulley and a series of ropes which pass over pulleys at the rear end of the bed-piece. Upon the front of the frame is a windlass by which, when it is desired to operate the machine, the lever is raised and its hook attached to the stump; by then drawing on the rope attached to the long end of the lever, the latter is depressed and the stump drawn out.

Claim.—The herein-described arrangement of the bed-pieces A A' A", in combination with the pivoted fulcrum D, lever C, windlass H, pulley K K' and m, and rope L, all operating

as and for the purpose set forth.

No. 36,672.—J. S. ROWELL and M. F. LOWTH, of Beaver Dam, Wis.—Improvement in Seeding Machines.—Patent dated October 14, 1862.—This invention consists in a peculiar construction of arched caps which cover the seed cylinder, whereby the seed, in passing from the hopper into the ground, is prevented from being crushed between the cylinder and cap. The invention also consists in the employment of a forked or friction brace, connecting

the shank or standard of the cultivator tooth to its drag bar, for the purpose of allowing the tooth so connected to yield, and thus prevent its being broken, bent, or otherwise injured by any obstruction.

Claim.—First, the triangular openings d and groove e in the cap I, in combination with the seed cylinders H, when arranged to operate in the manner and for the purpose specified.

Second, the combination of the forked or friction base M with the pivot k for connecting the shanks K and consequently cultivator teeth J to their drag bars L, substantially as described.

No. 36,673.—S. W. Ruggles, of Fitchburg, Mass.—Improvement in Stump Extractors.— Patent dated October 14, 1862.—This invention consists in the employment of two shafts or drums of unequal diameter, geared together by cog-wheels, in combination with a rope or chain extending from said shafts round the sheaf of a block, and with a strut or derrick, from the top end of which said block is suspended, and from which a hook, or chain, or other suitable device extends to the stump or other article to be raised or extracted in such a manner that, by imparting a rotary motion to the two shafts or drums, the rope unwinds on one while it winds up on the other, and, owing to the difference existing between the diameters of the two shafts, the motion of the block, as compared with that of the power imparting motion to said drums, is very small, and the working parts are without much friction, and consequently a powerful and multiplied strain is exerted on the derricks, and thereby the stump is raised.

Claim.—The combination of the sheave K, strut M, and rope or chain J, with geared drums of unequal diameters C D, substantially in the manner herein shown and described.

No. 36,674.—GELSTON SANFORD and J. E. MALLORY, of New York, N. Y.—Improvement in Machinery for Breaking and Cleaning Flaz and Hemp.—Patent dated October 14, 1862.—The object of this invention is to subject the fibre of flax or other like substance to a longitudinal and transverse rubbing action similar to that given by hand when the fibre is gripped between the thumb and finger of both hands, and a short vibratory motion given while pressing the stalks between the rubbing surfaces, whereby the woody part and cementing matter is effectually removed from the fibre. This is effected by feeding the flax to a roller having upon it circumferential grooves, and under which pass, and bear against it on a portion of its periphery, a series of endless chains or ropes, one for each groove. These endless chains pass over rollers, by which a forward motion is imparted, and they are alternately slackened and tightened by passing over a many-throw crank or similar device. They are thus caused to press the flax into the grooves of the main roller, and at the same time they slide upon and rub it; rubbing action is thus given the fibre both in the direction

of and across its length.

Claim.—The combination of a grooved surface, or the equivalent thereof, with a series of chains, or the equivalent thereof, having a mode of operation substantially such as herein

described, and for the purpose set forth.

No. 36,675.—GELSTON SANFORD, J. E. MALLORY, and C. P. HAYES, of New York, N. Y.—Improvement in Machines for Breaking Flaz, Hemp, &c.—Patent dated October 14, 1862.—The upper roller is mounted in proper boxes on each side of the main frame, and is rotated by means of the gear-wheel upon its shaft-gearing, with a pinion on wheel j, which is rotated by a band connecting it with shaft k below the rollers. The teeth of the rollers interlock, and thus motion is imparted from one to the other; but a reciprocating motion is given the lower roller by mounting it in sliding boxes connected by a transverse bar, connected by connecting rods to two cranks on the main driving shaft. This reciprocation gives a beating action on the fibre to the rollers, in connexion with the rubbing and breaking caused by their rotation, and thus more effectually separates the woody part from the fibre. The cleaned fibre passes into the perforated apron, which, owing to its having one of the rollers on which it revolves attached to the sliding boxes, has a shaky motion given it, and thus the broken fragments of the woody part are thrown out from the cleaned fibre.

Claim .- Giving to one or more of the fluted breaking rollers a vibrating or beating motion,

in combination with the rotary motion, substantially as and for the purpose specified.

Also, in combination with the breaking rollers, or their equivalents, giving a vibrating or shaking motion to the previous apron, substantially as and for the purpose specified.

No. 36,676.—JOHN SIMPSON and WM. HAYDEN, of Tecumseh, Mich.—Improvement in Grain Cleaners.—Patent dated October 14, 1862.—Reference to the description and drawings

will be necessary for an explanation of this invention.

Claim.—First, the cone below the saucer, by which the separation of the grain is secured, and its even delivery at the moment of its being acted upon by the current of wind, exposing the largest surface both of the grain and impurities to the action of the current of wind.

Second, the combination of the several parts as above described, in the manner and for the purpose indicated, in connexion with the curb spindle and stones of an ordinary flouring mill, as well as attached to other machinery, like an ordinary smutter.

Third, the double surface scourer indented from the opposite surface.

No. 36,677 -W. D. SLOAN, of New York, N. Y.—Improvement in Hoop Skirts.—Patent dated October 14, 1832.—The object of this invention is to increase the elasticity of the

hoops, and at the same time diminish the weight.

Claim.—Combining corrugated wire, suitably wrapped and formed into hoops, substantially as described, with cords, straps, or other equivalent means for connecting and holding the hoops, for the purpose set forth.

No. 36,678.—F. M. STRONG and THOMAS ROSS, of Brandon, Vt.—Improvement in Platform Scales.—Patent dated October 14, 1862.—This invention relates to an improvement in what are commonly called "drop-lever scales," these being arranged so that when not in use, or when being loaded, the levers are lowered down from the platform, which then rests upon the frame of the scale. The object of this invention is to render the adjustment of the scales as perfect as possible by the use of devices by which the knife edges are preserved from the wear incident to the usual method, and the friction of the "beam" with the parts at tached to and operating with it is reduced.

Claim —In the construction of "drop-lever scales," the use of the auxiliary levers DD

D' D', in combination with the rock-shaft K, connecting-rods E E, and links ha, of their equivalents, the whole operating substantially in the manner described and for the purpose

Also, the use of the shields or washers b, provided with angular ridges or projections 4,

in combination with the knife edges a and loops d, as set forth.

No. 36,679.—George Tainter, of Watertown, Mass.—Improvement in Dampers.—Patent dated October 14, 1362.—This invention consists in placing the hinged conical damper within a drum or cylinder which is in communication with the flue or pipe of the stove or furnace, and is larger in diameter than the flue or pipe, and placing the ventilating register within the drum or cylinder.

Claim.—The combination of the conical damper D and register C, when fitted in a drum

B larger in diameter than the pipe or flue A, substantially as set forth.

No. 36,680.—Albert Taplin, of Providence, R. I.—Improvement in Lamps.—Patent dated October 14, 1862.—This invention is explained by the claim and engraving.

Claim.—First, the attachment of a spring to the cone or chimney-holder, to secure the chimney to the same, when the chimney-holder, cone, and chimney are removed from the

cap for trimming and lighting the lamp, substantially as and for the purpose herein described.

Second, in lamps having the cone or chimney-holder connected to the lamp cap by a hinge, making that part of the hinge attached to the chimney-holder of the same piece of metal with the holder, and that part of the hinge attached to the lamp cap of the same piece of of metal with the cap, substantially as described and for the purpose set forth.

No. 36,681.—WILLIAM TERRY, of Birmingham, England.—Improvement in Breech-Loading Fire-arms.—Patent dated October 14, 1852; patented in England April 7, 1856.—To the rear end of the barrel of a breech-loading fire-arm is adapted a sliding piston, the rod of which passes through a hole in a piece of metal forming part of the rear end of the barrel. Upon the piston rod are two lugs or projections which fit within corresponding recesses in the breech piece after the cartridge has been pushed into its place, and thus the piston is secured. These projections have their outer ends bevelled in opposite directions, so that, after the projections have been freed in the recesses by giving the piston rod a slight turn, the bevelled end coming in contact with the back of the recess will force the conically-shaped head of the piston firmly into a corresponding seat in the barrel and thus form a tight joint. Hinged to the end of the breech piece is a lever H H', which is acted upon by a spring attached to pieces G, by which the lever is retained in place. A portion of this lever fits into the slot used for the introduction of the cartridge; it thus serves the double purpose of a handle to withdraw and replace the piston, and also as a means for keeping it in place, so as to be flush with the barrel and the hammer be operated as the piston rod passes through a recess which contains an oiled vessel by which it is lubricated.

Claim.—The mechanical construction and arrangement of the various parts marked D E c E' G f H H' I K M N O and P hereinbefore particularly described, set forth, and represented by the illustrative sheet of drawings hereunto annexed, together with the mode of operating with the same, for the purpose of introducing the cartridge into the barrel of the fire-arm, and for presenting a substantial and efficient abutment for the powder to act against for discharging the contents of the barrel from the mouth of the fire-arm, as above stated.

No. 36,622.—W. O. Thomas and A. M. Miller, of Fond du Lac, Wis-Improvement in Journal Boxes.—Patent dated October 14, 1862.—The outside shell of this journal box is made of iron, which is filled with limestone and then bored out to fit the journal. It is claimed that this journal box absorbs oil readily, heats slowly, and is very cheap and durable.

Claim.—A new article of manufacture consisting of a journal box composed of limestone

and metal, as herein specified.

No. 33,683.—Theophilus Van Kaunel, of Chester, Ill.—Improved Machine for Stoning Cherries.—Patent dated October 14, 1862.—This device consists of a frame having an opening in each of its four sides and provided with a feeding hopper with an inclined bottom leading into the frame. Under the hopper is a four-armed gravitating lever, one arm of which extends through the bottom of the hopper and acts as a feeder to force a single cherry through the passage. Within the frame is a vertically sliding receiver, made concave at its centre, from which descends a cylindrical passage for conducting off the stones removed from the cherries. Attached to the slide is a finger piece, arranged to swing upon a vertical axis at one side, and serves to strip the cherry from a series of barbed needles projecting from the centre of the under part of the top of the frame. The finger piece is kept in position off from the centre of the slide by means of a spring. The cherries are fed separately to the slide when they are stoned, the stones being discharged separately in one direction and the pulp in another direction.

Claim.—First, the gravitating feeding device D, substantially as and for the purpose de-

scribed

Second, the vertically sliding receiver or concave E f g with a central passage h through it, in combination with a series of barbed needles m and with the gravitating feeder D, substantially as and for the purposes described.

Third, the pivoted spring finger piece, applied and operating substantially as described, for

the purpose set forth.

Fourth, the organization of the machine, as described, so that it will feed the cherries exparately, stone them separately, and discharge the stone in one direction and the cherry meat or pulp in another direction, substantially as and for the purposes set forth.

No. 36,684.—D. C. WILSON, of Painesville, Ohio.—Improvement in Tailors' Press-Board Holders.—Patent dated October 14, 1862.—This invention consists of an iron stand having a lengthened foot, by which it may be attached to a board or table. The upper part of this stand is provided with a rectangular opening in which a press-board can be inserted, being supported in a horizontal position by a projecting table forming a part of the stand platen, to which it is attached by a screw passing through the top of the stand, so as to hold the press-board firmly in position, but permits it to be readily disengaged when required.

Claim.—As a new article of manufacture, a tailor's press-board holder, constructed and arranged and being of the portable character, as herein particularly described, and operating

as set forth.

No. 36.685.—T. C. Brecht, of United States Army, and S. B. Sigesmond, of Washington, D. C., assignors to Themselves and John Kuliuski, of Washington, D. C., and J. H. Housewricht, of New York, N. Y.—Improvement in Combined Clook, Test, Bed, &c.—Patent dated 0 tober 14, 1862.—This invention consists of a sheet of water and air-tight fabric doubled so that it can be inflated and thus be made to form a bed or mattress. Attached to one side is a sheet of cloth which may be used as a cover, and at the extremity is a flap which, when supported by props, forms a roof over the head of the soldier lying on the bed. This tent, when uninflated, can be folded up and carried on the knapsack, as shown in the engraving. It may be used as a cloak, and it also can be suspended so as to form a hammock; it can be used as a mattress in an ambulance, and also, by its buoyancy, can be used as a life-preserver.

Claim.—First, a portable tent made of a double water and air tight fabric, in the manner

and for the purposes substantially as specified.

Second, the herein described arrangement for changing a cloak into a tente d'abri, ham-

mock, ambulance, and life-preserver.

Third, a combined cloak, tent, hammock, ambulance and life-preserver, constructed subantially as herein described.

No. 33,636.—M. L. CALLENDER, of New York, N. Y., assignor through mesne assignments to C. H. Welling, of the same place.—Improvement in Compound Explosive Projectiles.—Patent dated October 14, 1862.—In the axis of the projectile is bored a hole, the lower part of which contains powder. Upon this powder rests a bar of steel which is provided with a pointed end which extends from the projectile. This bar is also bored and contains a magazine of powder; the remainder and rear portion of the bore contains a tube with a percussion tow or nipple inserted into one end, while the other end is closed by a perforated plate. In last the is a ball which moves freely. When the projectile strikes an object the ball is thrown actward and strikes the percussion cap, which ignites the fuze and explodes the charge in the shell. The bar of steel is thus driven forward and exploded at the proper time by the payder in its magazine.

Cla-m. - A projectile having a steel bar or centre inserted on a line with its axis when said

bar contains an independent exploding magazine.

Also, the combination in a projectile of a discharging chamber and penetrating bar of steel or similar metal having an exploding magazine within it and supplied with a percussion and fuze apparatus, for the purpose and in the manner as set forth,

No. 36,687.—W. D. GRIMSHAW, of Newark, N. J., assignor to Himself and C. A. Tix Eyck, of New York, N. Y.—Washing Machine.—Patent dated October 14, 1862.—T. This invention consists in arranging a pair of corrugated rubbing rollers above a pair of squeezing rollers. The lower corrugated roller is in a fixed bearing, and its shaft is prosecuted in a crank and fly-wheel which gears with a pinion upon the shaft of the upper squeezing roller, which is also placed in a fixed bearing. The shaft of the lower roller rests in section to the second state of the two rollers, by means of side levers connected to these slides and according to the second state of the second

Claim.—The arrangement of the pairs of washing machine rollers c c and squeezing of f, in the manner specified, so that the power to revolve said rollers is applied to the middle rollers, while the upper and lower rollers are yielding, for the purposes set forth.

No. 36,688.—H. B. Morrison, of Mount Morris, N. Y., assignor to C. H. Morrison.

Le Roy, N. Y.—Improvement in Nozzles for Hose and Pipes.—Patent dated October 14, is 2—
This device consists of a straight nozzle in connexion with a curved nozzle, which is a straight to a sleeve placed loosely upon the straight nozzle, and so arranged together a dmit of water being discharged in one or two streams at the same time. The nozzlet is provided respectively with tips, which are secured obliquely on the same, so that by turn the tips the direction of the streams may be varied from a straight line with the nozzlet a line quite angular therewith.

Claim.—First, the revolving or adjustable tips J K applied to A F of hose water pipe -

and for the purpose set forth.

Second, the arrangement of the nuts B E, thimble C, sleeve D, when used in combination with the nozzles A F and sleeve G, to operate as and for the purpose herein described.

No. 36,639.—G. H. SMITH, of Rochester, N. Y., asssignor S. O. SMITH, of the same pay-Improvement in Illumination.—Patent dated October 14, 1862.—The nature of this inver: 3

is explained by the claim.

Claim.—First, the use of common atmospheric air in the place of oxygen gas in the content of illuminating gas or its equivalent, for the production of a high degree of heat. The such atmospheric air has been previously heated, and in that condition is forced by mean properly arranged jets into intimate contact with the illuminating gas at the moment of activation, substantially in the manner herein above set forth.

Second, the use of common atmospheric air in the place of oxygen gas in the comband of illuminating gas or its equivalent, for the production of an intense degree of light wise such atmospheric air has been previously heated, and in that condition is forced by preparanged jets into intimate contact with the illuminating gas at or before the moment of bustion, both being at the same time made to impinge upon a suitable piece of lime of the known equivalent, substantially in the manner above described.

Third, the use of common atmospheric air in the combustion of illuminating substances such as illuminating gas, oils, or hydrocarbons or their equivalents, for the production increased degree of light, when such atmospheric air has been previously heated, and a condition is brought in intimate contact with any of said illuminating substances at a condition.

the moment of combustion.

No. 36,690.—James Ward, of Boston, Mass., assignor to Himself and I. F. Hunner. of the same place.—Improvement in Brick Machines.—Patent dated October 14, 182-1 machine is designed to mould the clay in a comparatively dry state, so as to make a technically called pressed brick. It consists of a circular matrix plate or bed, in a two concentric rows of brick matrices formed vertically through it, provided with bottoms. These matrices are made to pass under two pulverizing and pressing rollers are so geared as to operate together and in connexion with the revolving bed.

Claim.—The arrangement of the pulverizing and pressing rollers I I, in combinate the revolving series of moulds, when geared and operated conjointly in the manner are

the purpose specified.

No. 36,691.—J. S. HALL, of Pittsburg, Pa.—Improvement in Machine for Forging, Best and Shaping Ploughshares.—Patent dated October 14, 1862.—This invention consists employment of a die-block and pressing dies, so arranged and constructed as to form a share from a single piece of steel or iron having a vertical and horizontal cutting elempressing dies are made in two parts, one being stationary and the other movable.

Claim.—First, the die B for drawing down, bevelling, and shouldering the blank.

tially as and for the purpose herein described.

Also, in combination, the dies C D for griping, bending, and forming the plour when constructed and operating substantially as herein described.

No. 36,692.—Samuel Adlam, Jr., and Jeremiah R. Fogg, of Portland, Maine, as to Samuel Adlam, jr., aforesaid.—Improvement in Lamp Burners.—Patent dated to 14, 1802.—A broad band encircles the wick tube and rises slightly above its top. "Top of this band is a projection, which extends out horizontally. On this projection the

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of the cone rests, and is secured by a pivot. The opposite side of the cone is secured to the wick tube, and the upper part of which fits in a notch in the flange of the cone. On loosening

this spring the cone can be moved horizontally on its pivot.

Claim.—So combining a chimney and lamp that the chimney may be removed from over the wick of the lamp by a horizontal lateral movement of the chimney and without detaching

the chimney from the lamp, for the purpose set forth.

No. 33,633.-D. B. CHAPMAN, of Milford, Mass., assignor to Himself and E. D. DRAPER, of the same place.—Improvement in the Manufacture of Soap.—Patent dated October 14, 1-62.—The object of the flour is to enable alkaline silicate more readily to unite with the soap. The sods effects a combination of the flour with silicate, and also prevents any decomposition of the silicate of the flour.

Claim.—The combination of a carbonate or caustic soda with an alkaline silicate and vegetable flour, combined with soap or a saponified oil or fat, substantially as described.

No. 36,694.—B. R. ALDEN, of New York, N. Y.—Improvement in Lamp Burners.—Patent dated October 21, 1862.—This invention consists of a deflector constructed of porceiain, pottery, earthenware, or other similar non-conductor of heat, the same being applied to a case or jacket which surrounds the wick tube.

Claim.—First, a tamp burner provided with a cone or deflector constructed of porcelain,

pottery, earthenware, or any baked earth or earthy coment, substantially as set forth.

Second, the combination of said cone with the case or jacket C, arranged substantially as and for the purpose specified.

No. 36,695.-J. F. Allen, of New York, N. Y.-Improvement in Valve Gear of Steam Engines.—Patent dated October 21, 1862.—This invention relates to the means of moving the valves in that class of steam engines in which the steam and exhaust ports are opened and closed by separate valves which slide upon their seats in operating, and it consists in the employment of an eccentric rod which, at a short distance from the eccentric, is divided into two rods attached, respectively, to arms secured to separate rock shafts, by the vibration of which latter, motion is communicated through other arms and rods to separate valves for admitting the steam or for releasing it, or for both purposes, at opposite ends of the cylinder, the object being to give to the valves a slow motion after the ports have been covered, and at the same time to give them a more rapid motion while the ports are open than would be imparted to them by the eccentric rod directly.

Claim .- The herein-described arrangement of valves, worked by means of separate rods and levers operated from the action of a single eccentric, the whole being combined and

operated in the manner and for the purpose substantially as set forth.

No. 36,696.—W. W. Andrews, of Warrensville, Ohio.—Improved Belay Cleats for Boats.—Patent dated October 21, 1862.—Within a suitable framework is suspended a pendulous weight upon a shaft, which must lie in a line parallel with the keel of the vessel, and at right angles with the beam. Upon one end of the said shaft is secured a cam, the face of which is concentric with the shaft. To the frame are also attached triangular clutches. The parts are so arranged that when the vessel is steady the line will remain taut; but in case the vessel careens, by means of a sudden flaw, the line or rope will be instantly released.

Claim.—The special arrangement of the pendulated weight, B, cam D, and clutches E, in combination with the pins F and springs K, the several parts being arranged substantially

as and for the purpose set forth.

No. 36,697.—D. M. AYER, of Lewiston, Maine.—Improvement in the Harness Motion of Power Looms.—Patent dated October 21, 1862.—This invention consists in a method of controlling the operation of the harness of a power loom for fancy weaving, whereby the weaving of a long and very varied pattern is provided for without the necessity of using a pattern chain of great length. The construction of the machine does not admit of a brief

Claim.—First, the construction of a pattern chain of a series of pin-jointed links, provided with mortises u u and a series of pin bars Q Q, fitted to slide longitudinally in the said

mortises, substantially as and for the purpose herein specified.

Second, the drum T, having a series of pins 16 16 16 16 spirally arranged on its periphery and the cam S, applied and operating in combination with each other, and with the sliding bar R', or its equivalent, carrying guides R R or other devices for the purpose of shifting the sliding pattern pin bars of a pattern chain or cylinder, substantially as herein wt forib.

Third, the employment for producing the longitudinal movements of the drum T upon its shaft U of a screw thread 40 in the hub, two levers X X', and a spring catch 26, applied within the shaft, a pin 34 attached to the drum, and a spring Y applied between the drum and shaft, the whole combined and operating substantially as herein specified.

No. 36,698.—J. S. BARDEN, of New Haven, Conn.—Improvement in Water Mater.—Patent dated October 21, 1862.—This invention consists in the arrangement of a scient devices named in the claim, in the operation of which a continuous rotary movement given to the shaft, so that an indicating apparatus may readily be applied to register number of movements of the pistons, and that the crank of each piston, while at its depoint, will be helped over the same by the pressure of the other piston on its own cran. The cranked shaft is inserted in two stuffing boxes, each of which has a concentric towhich enters a corresponding opening or passage through the side of the case so as to also the ready removal and replacement of the said shaft.

Claim.—The above-described arrangement of the eduction passage, valve chest, was chambers, cylinders, pistons, valves, and valve-operating mechanism, as applied in materials.

and so as to operate together substantially as set forth.

Also, the tenoned stuffing boxes and the slides, applied in the case and its partition schaft K, substantially in manner and for the purpose as specified.

No. 36,699.—H. B. BECKMAN, of Newburyport, Mass.—Improved Automatic Step Make for Steam Engines.—Patent dated October 21, 1862.—The object of this inventor is effect, automatically, the stoppage of a steam engine, water-wheel, or other motor regulated by a governor whenever the latter stops by reason of the breaking or slipping of divining band or otherwise, and the invention consists in the arrangement, in connection a a stop valve or gate provided with a spring or weight, of a hook or catch which holds a said valve open while the governor is in operation, but which is caused by the stoppage the governor to liberate the valve and allow it to be closed by the spring or weight appropriate the governor to liberate the valve and allow it to be closed by the spring or weight appropriate the purpose.

Claim.—The catch lever E c d, arranged and applied in relation to the governor, as combination with the stop valve or gate, substantially as and for the purpose herein specs.

No. 36,700.—L. A. BEEBE, of Chicago, Ill.—Improvement in Machines for Shelling at Cleaning Corn.—Patent dated October 21, 1262.—In the frame or head at the front cathe shelling cylinder is a semicircular opening, over which is secured a plate which may so adjusted as to regulate the size of the opening for the escape of the cobs. In conclude with the shelling apparatus is a shoe provided with inclined boards and screens, and also a fan blower and elevator, by means of which the corn is cleaned after being shelled.

Claim.—First, the semicircular discharge aperture a and the corresponding adjustplate a', combined and arranged as set forth for regulating the discharge of cobs from to

mill.

Second, combining with the shelling apparatus, constructed as herein described to shoe D, with its inclined boards c d' G, screens l d and trough e, the fanning mill E F. d elevating trough H, all arranged and operating as a whole, as and for the purposes last set forth.

No. 36,701.—JOHN BURNSIDE, of Washington, D. C.—Improvement in Portable Hours—Patent dated October 21, 1862.—This invention consists in the employment of book tached to the posts and used in connexion with notches made in the upper edges of the wear boards fitted to the hooks in the posts so that the lower edge of one board will hold the upper edge of the next board below it.

Claim.—The hooks in the posts in combination with the notches in the boards for purpose of making the lower edge of one board hold the top edge of the board next below:

substantially as described.

No. 36,702—H. H. COOLEY, of Battle Creek, Mich.—Improvement in Pistons for Fer-Pumps.—Patent dated October 21, 1862.—This invention consists in constructing the period with two water passages and a valve chamber, the latter being provided with a bandon and communicating with the tubular piston rod, so arranged in connexion with the plancy limiter, which is provided with suitable valves, as to throw a continuous stream.

provided with a side water passage and suitable valves, as set forth.

No 36,703.—A. C. Dewies, of Crefeld, Prussia.—Improvement in Lubricators.—Pardated October 21, 1862.—This invention consists in the employment of a glass vesse, which a tube or cylinder is inserted, the mouth of the vessel being closed with a chrough which the tube passes. The end of the tube, which is inserted into the vessel closed, with the exception of a minute orifice; a similar orifice, through which the escapes, is also made in one side of the tube. The lower or outer end of the tube is of and its closely upon the axle to be lubricated, so that when in repose no oil escapes. The when the axle rotates, the oil is drawn down and lubricates the journal, the vacuum cause in the vessel being filled by the air which percolates through the cork.

Claim.—The combination of the transparent vessel A, the stopper C, and the tube B, having its flow regulated by the perforations in the end within the vessel A, and the other end adjusted to the curvature of the shaft with the journal box D and shaft E, when the whole are constructed, arranged, and operate as described for the purpose set forth.

No. 36,704.—C. S. DIKEMAN, of New York, N. Y.—Improved Composition for Treating Vegetable Paper.—Patent dated October 21, 1862.—The ingredients of which this composition consists are a mixture of kerosene oil and spirits of turpentine, to be applied to the paper by means of a sponge or otherwise.

Claim.—The employment or use, for the purpose of preparing vegetable paper, of a com-position made of the ingredients herein specified, and mixed together in or about the propor-

tion and substantially in the manner described.

No. 36,705.—JACOB DOBBINS, of Litchfield, Mich.—Improved Machine for Jointing and Dressing Staves.—Patent dated October 21. 1862.—This invention relates to a method of dressing the staves so that stuff of different thicknesses may be readily operated upon, and so as to render the machine capable of being adapted to operate upon winding stuff. It also relates to a method of jointing the staves, whereby staves of different widths, may be acted upon and bevelled, and the barrel heads also planed.

Claim.—First, the swinging segment bed H, provided with the clamp bar Q, and attached to a radius bar I, in combination with the rotary cutters D D', arranged to operate as and

for the purpose herein set forth.

Second, the particular manner of arranging the radius bar I, so that its rack G may be connected with the driving pinion k, and be disengaged from it, to wit, by means of the trame J, catch M', and set screw P, as described.

Third, the yielding frame F', to which the gearing j k is fitted, when arranged with the

spring f, set screw h, and gearing E i, to operate as set forth.

Fourth, the swinging supports and gauge bars U U, when used in combination with the

swinging bed H and clamp bar Q, as and for the purpose specified.

Fifth, the sliding frame V, provided with the reversible bolster Y and clamp bar Z, in combination with the rotary cutters C C and bevelled rods C" C", as and for the purpose

Sixth, the dog bars D" D", when attached to the sliding frame V and used in connexion with the cutters C C, as and for the purpose specified.

No. 36,706.—Samuel Gissinger, of Alleghany City, Pa.—Improvement in Brick Machines.—Patent dated October 21, 1862.—In the sides of the hopper are placed four staves for the purpose of supporting the arms q. Upon the upright shart are also arms y, placed pirally, and the two sets of arms are so arranged that their thin edges approach each other and serve to break the lumps of clay before the latter enters the mould.

At the front end of the machine is arranged a press roller over the mould way. Upon the axle of the press roller rest two weighted levers for the purpose of regulating the pressure of

Claim.—The use of the bevelled arms y and q and the gauge s, when used in combination with the press roller h, lever i, and mould way g, arranged and operated substantially as herein described for the purpose set forth.

No. 36,707.—J. C. Goar, of Jamaica Plain, Mass.—Improvement in Belt Shippers.—Patent dated October 21, 1862.—This invention consists in the arrangement of an oscillating double-elbow piece and a single spring locking pawl in combination with a two-notched shipping slide, which carries the belt guide, and with a lever, whereby, when the slide has been locked by the pawl with the guide in either of its two positions for guiding the belt, the pressure applied to the lever to shift the slide for shipping the belt will first cause the elbow lever to disengage the pawl from one notch of and so unlock the slide, and then give the latter the proper movement, and that when, after the movement of the slide has been given, the pawl is allowed to enter the other notch of and so lock the slide until the pressure on the lever is reversed.

Claim.—The combination with the belt slide C and the spring locking pawl E of the double-acting detacher and slide mover D, in the manner herein shown and described.

No. 36,708 .- James Greaves, of Utica, N. Y .- Improvement in Pumps .- Patent dated October 21, 1862.—The nature of this invention will be understood by reference to the claim

and engraving.
(lasm.—The combination and arrangement of the flange 3 and base 2.2, as constructed and combined with the upper part 1 and spout 3, metal band 5, as fastened to the wood pipe 4, the elbow 9, and flange 10, as combined with the rod 7 and pipe 4, said pipe being the only support of the barrel 8, and the barrel 8 when constructed of stoneware or earthenware, all as shown in Fig. 1, as and for the purposes described.

Second, the rubber pipe 12, as combined with the iron pipe 11 and earthenware pipe 15, the enlargement 13, ring 14, and rod supporter 16, all shown in Fig. 1, all as and for the pur-

pose described.

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No. 36,709.—EDWARD GWYN and A. C. CAMPBELL, of Hamilton, Ohio.—Impressent in Breech-loading Fire arms.—Patent dated October 21, 1662.—The lever a revolves upto the fulcrum b and is attached to the breech-plug by means of a screw pin. As the level brought backwards and upwards against the stock, the rear end m of the breech-plug is to down by the spring f and serves as a guide, and, in connexion with the motion of the serve pin, directs the breech-plug into the rear of the chamber.

**Claim,—First, the contrivance above described for withdrawing a breech-plug four-seat, depressing it to make room for the insertion of the cartridge, then elevating it as afterwards carrying it longitudinally back to its seat, by the simple revolution of the pin backward and forward in the arc of a circle around a fixed centre, substants.

above set forth.

Second, the combination of the lever a, the fulcrum b, the screw pin c, the breech-pink with its guide m, and the spring f, constructed, arranged, and operated substantially re-

manner and for the purpose above set forth.

No. 36,710.—N. S. HAMLIN, of St. Louis, Mo.—Improvement in Physicians' Prestrict Cases.—Patent dated October 21, 1862.—This case is made of leather or other subflexible material formed with three flaps and provided with pockets for the reception of materials, &c., and capable of being compactly folded so as to be conveniently carried about a person.

Claim.—The case A, consisting of three wings and a middle portion, each provided and

pockets d e f g and g', arranged in the manner and for the purpose set forth.

No. 36,711.—Derastus Harper, of Crystal Lake, Ill.—Improvement in Ploughs.—Port dated October 21, 1862.—This invention is explained by the claim and engraving.

Claim.—First, the standard A, constructed of wrought-iron in angle form, expanded solver part, and united at its upper part to form a solid flat bar, in combination with mould board B, landside C, and share E attached to the stand, and all arranged as set of Second, the bar or sole F of the landside C, constructed of wrought-iron in angle for a solid flat bar.

Second, the bar or sole F of the landside C, constructed of wrought-iron in angle for its back part, turned upward at its front part, and secured to the standard as shown is purpose specified.

No. 36,712.—G. H. HULSKAMP, of Troy, N. Y.—For Piano-Forte Action.—Patent Coctober 21, 1862.—To the jack or hammer lifter is attached by a joint a detacher of form shown in the engraving, which is pressed upward by means of a spring attached to lever F upon the key, and bearing against a projection on the detacher until the upward to the detacher is arrested by a stop attached to its rear part. The form of the latent and jack is shown in the engraving.

The height of the jack is regulated by means of a screw inserted in the key under one of the lever F, a block of wood serving for a bearing for the other end of the said lever.

which is secured to the key lever by a screw.

Claim.—First, the combination of the vibrating detacher J and its adjustable stem L

the jack I, substantially as herein shown and described.

Second, the form and peculiar construction of the hammer butt D of the jack I and of its

detacher J, substantially as described.

Third, the mode of attaching the levers, hinge butts, &c., substantially as described its equivalent, for the purpose of preventing looseness, and the effects of shrinking as welling.

No. 36,713.—G. H HULSKAMP, of Troy, N. Y.—Improvement in Violins.—Patent derinstrument, instead of being rounded and curved as heretofore constructed, are made support and the outer surface plain. The two ends of the instrument are composed of two solid made of hard wood, and to them are firmly glued the upper and lower sounding bourfrom each of the rims proceed three braces, which unite near the centre of the instrument and are there connected with a steel screw and two brass nuts, so that by turning the a pressure is transmitted from the centre through the braces to the rims, and the requirements is thus given to the sounding boards.

Claim.—First, the use of strained sounding boards in violins, and other instruments named and referred to, of whatever material made, operating and constructed substation.

as set forth.

Second, having the middle portion of the under sounding board, as shown at C C. ... wider than the corresponding middle portion of the upper sounding board, substanta and for the purpose herein shown and described.

Third, making one foot of the bridge to bear upon the upper and one upon the sounding board, either directly or by means of the tripod or post, as above set forth.

Fourth, the construction of the nut U and bridges, with the flat projection surface stantially as described.

Fifth, the combination of the string-holder E with one or more internal brace H. Stantially in the manner and for the purpose herein shown and described.

No. 36,714.—EDWARD JOHNSON, jr., of Cleveland, Ohio.—Improvement in Cooking Stores.-Patent dated October 21, 1862.—This invention is explained by the claim.

Claim - Making the oven plate of cooking stoves of one entire piece of corrugated sheet iron, as and for the purpose substantially as herein set forth.

No. 36,715.—J. J. JOHNSTON, of Alleghany City, Pa.—Improvement in Wooden Soles for Boots and Shoes.—Patent dated October 21, 1862.—This invention consists in the use of a detached, compressed, and elastic spring, when used in connexion with the inner and outer soles of boots and shoes; the soles being made of wood and in two or more parts. On the under side of the inner sole at the joint is a recess for the reception of a hinge, and in the up-

per side of the outer sole is a recess for receiving the spring which protects the joint.

Claim.—The use of the detached elastic spring i when used in connexion with the hinge j recess g, outer sole b c, and inner sole d e, arranged, constructed, and operated substantially

as herein described and for the purpose set forth.

No. 36,716 .- J. E. KARELSON, of New York, N. Y .- Improvement in Millstone Dressers .-Patent dated October 21, 1862.—This invention consists in the arrangement of a V-shaped guide attached to the front edge of the hinged adjustable rule of a milistone dress, in combination with a V-shaped lug attached to the edge of the diamond holder in such a manner that the point of the diamond is prevented from falling down into the holes or cavities which occur in the surface of the millstones, and that lines of equal depth can be easily drawn. To the said rule are applied one or more serrated spring catches in such a manner that the operator is prevented from moving the diamond across the surface of the stone in the wrong direction.

Claim.—First, the arrangement of the V-shaped projection l at the front edge of the rule

C, in combination with a corresponding groove m on the diamond holder H, constructed and

operating substantially as and for the purpose shown and described.

Second, the application to the rule C of one or more serrated spring-bars G, substantially

as and for the purpose specified.

Third, the arrangement of the adjustable slide p and spring r, in combination with the head a containing the diamond, and with the set screws q and s, and V-shaped groove m, all constructed and operating as and for the purpose described.

Fourth, connecting the rule C to the plate A by means of hinges c c c, or their equivalents,

substantially as and for the purpose described.

No. 36,717.—A. C. KETCHUM, of New York, N. Y.—Improvement in Lamp Burners.—Patent dated October 21, 1862.—The object of this invention is to prevent the heat from being conducted down from the flame to the body of the lamp in such a degree as to volatilize the oil too rapidly, and at the same time to cause the flame to be supplied with air in a comparatively cool state, and in sufficient volume to insure combustion. The claim explains the nature of the invention.

Claim.—First, a lamp burner having a metal wick tube B surrounded by a case or jacket C of porcelain, pottery, earthenware, glass, or any baked or unbaked clay, or earthy substance, which is a good non-conductor of heat, substantially as and for the purpose herein set forth.

Second, a cone or deflector D, constructed of metal and enamelled both externally and internally, and applied to the case or jacket C, or to the lamp, substantially as and for the purpose herein shown and described.

No. 36,718.—C. KROGH and M. G. HOGNESS, of Kroghville, Wis.—Improvement in the Mode of Raising Sunken Vessels.—Patent dated October 21, 1862.—This invention consists in placing within sunken or damaged ships or other vessels air-tight bags or chambers of flexible material, in combination with inflexible air-tight chambers or floats around them, and forcing air into the said chambers or floats. At or near the bottom of the said chambers or floats are arranged openings for the introduction of air into the same, so that the openings may be sealed by the water itself, and the air be prevented from escaping from the vessel.

To these openings are attached weighted flexible pipes by which their outer orifices are kept below the body of the float or chamber in case of the latter getting displaced in their operation.

Claim.—First, the employment, in combination with the flexible bags or flexible chambers for raising sunken vessels, of inflexible lifters applied outside the vessel, and operated sub-

stantially as herein set forth.

Second, the arrangement of the connexions of the air pipes for the admission of air to expel the water from the lifters, at or near the bottom of the lifters, substantially as and for the purpose herein specified.

Third, the weighted flexible pipes f f applied to the lifters, and operating substantially as

and for the purpose herein specified.

No. 36,719.-W. H. LEECH, of Dunlapville, Ind.-Improvement in Field Fences.-Patent dated October 21, 1862.—This invention consists in the arrangement of a pacing board catching over the fence post and supporting the panel, in combination with the notched braces, which are secured by suitable keys in mortiaes in the ends of the pacing board in such a manner that the fence can be united and firmly supported without the use of nails.

Claim.—The arrangement of the pacing boards D in combination with the notched brace. E, wedges e, notched posts B, and rails A, all constructed and operating substantially in the manner and for the purpose herein shown and described.

No. 36,720.—H. W. LIBBEY, of Cleveland, Ohio.—Improvement in Vapor Baths.—Pai-at dated October 21, 1862.—The floor of the bath is composed of wire gauze, beneath when placed a metallic trough or pan for containing the fluid to be vaporized. A perforated satisfies provided, to which is attached a foot-rest. In the rear is a sliding back-rest, when can be adjusted to suit the patient. A neck-piece of oiled silk is so arranged as to prevent the escape of vapor, and allow the patient to breathe the fresh air.

Claim.—The perforated or wire-gauze floor A and adjustable trough B, in combinative with the perforated adjustable seat C and foot-rest C', adjustable back-rest D, and necessity piece G, the several parts being constructed, arranged, and operated as and for the purpose

herein specified.

No. 36,721.—J. V. MEIGS, of Washington, D. C.—Improvement in Breech-loading Firearms.—Patent dated October 21, 1862.—This invention consists in imparting the proprimovement to the breech-plug by means of a pin or projection upon it, which traverses in a slot on a link pivoted at one end, so as to be capable of moving freely around its pivot we curvature of the slot being such that the motion of the link around its pivot traverses in plug to permit the insertion or withdrawal of the cartridge case, and, when the breech is closed, to hold it firmly locked.

Claim.—The combination of the reciprocating piston or breech-plug C with the pivoted slotted link D, when constructed and arranged substantially as described, for the purpose

set forth

No. 36,722.—T. T. Morrell, of Farmington, N. H.—Machine for Making the Lesses of Books from a Continuous Sheet of Paper.—Patent dated October 21, 1862.—The object in this invention is to combine the several operations of cutting, folding, ruling, and packing the leaves of blank books in one and the same machine in succession upon a continuous sheet of paper, in such a manner that the paper is first ruled upon both sides by two sets of fountain pens; second, the paper is cross-ruled with column lines into pages by means of properly arranged rules in the face of two rollers operating in connexion upon each side of the paper; third, the pages are numbered by means of a peculiar device which stamps the number of each page upon the upper corner thereof; fourth, the leaves are cut in folio form one by one, from the continuous sheet; and fifth, the leaves thus cut are folded and deposited regularly in proper order, complete and ready for binding.

Claim.—First, in combination with one or more sets of fountain pens for ruling the brizontal lines of a page, a set of ruling rollers for printing the perpendicular lines, substantially

as herein shown and described.

Second, the reciprocating paging apparatus arranged and operating substantially as show.

and described, for the purpose specified.

Third, the peculiar cutting apparatus, arranged and operating substantially as described, for the purpose specified.

Fourth, the peculiar construction and arrangement of the folder f and the folding roles

P P, substantially as shown and described, for the purpose specified.

Fifth, the combination and arrangement of the several apparatuses composing the withindescribed machine, whereby the successive operations may be performed in their proper over upon a continuous sheet of paper, while in motion, substantially as herein specified.

No. 36,723.—A. F. NEWELL, of Warren, Ohio.—Improved Fruit-Basket and Crate.—Patent dated October 21, 1862.—This device consists of a skeleton crate bound at each end with hoop iron, so arranged that the band forms a hinge and clasp lock. Within this crate are packed a number of baskets of square form for holding fruit to be transported, so arranged as to protect the fruit, and at the same time allow it to be exposed to the fresh air.

Claim.—The within-described fruit-basket and crate, as a new article of manufacture, consisting of the sides A, cover C, band D, with loops F, and the baskets H, all constructed

and arranged as and for the purpose substantially as set forth.

No. 36,724.—A. W. Olds, of Green Oak, Mich.—Improvement in Cultivators.—Paich dated October 21, 1862.—The cultivator is so constructed as to be supported in part by common bearing wheels, so arranged and adjusted that a forward movement of the veder will cause a positive rotation of the cultivator. The form of the teeth is shown in the engraving.

Claim.—First, the adjustable axletree I, bearing wheels K and K', in combination with the cultivator frame A B, axis C, and pipe-box E, when these parts are arranged and operated

as and for the purpose specified.

Second, the beli-shaped, round-shanked tooth, constructed and operating as and for the purpose herein set forth.



36,725,—OSCAR PADDOCK, of Watertown, N. Y.—Improvement in Ice-Cream Freezers.—Patent dated October 21, 1862.—This invention is explained by the claim and engrav-

ing.

Claim.—First, in ice-cream freezers of otherwise ordinary construction and operation, the method described of imparting rotary motion to the freezing vessel, while the scrapers are held stationary by the employment, in combination with a spindle bearing in a socket in the bottom of the freezing-vessel, of a pivot cast to the said vessel and bearing in a socket in the ice-bucket, the whole being arranged to operate substantially in the manner herein set forth.

Second, the employment of stirring blades arranged to the bottom of the cream-holder, to mix with the ice particles and dissolve the salt that shall have been carried to the bottom,

substantially as herein set forth.

Third, in combination with a revolving cream-freezing vessel and stationary scrapers, the use of revolving beaters fast on the spindle, operating in connexion with stationary beaters fast on the scrapers, substantially in the manner and for the purposes set forth.

No. 36,726.—J. A. Pease, of New York, N. Y.—Improved Clothes Dryer.—Patent dated October 21, 1862.—To a back piece formed of a flat piece of wood is hinged a swinging piece having attached to it a series of radiating arms upon which the clothes are hung. When not in use the swinging piece with its arms is folded down out of the way.

Claim.—The combination and arrangement of a clothes dryer, substantially as before de-

scribed.

No. 36,727.—JOHN PLATT and WILLIAM RICHARDSON, of Oldham, England.—Improvement in Machinery for Cleaning Wool.—Patent dated October 21, 1862.—This invention consists in the employment of a roller against which is placed a fixed blade, between which latter and a reciprocating blade the wool or other similar material to be cleaned is introduced. In connexion with the above are used spiked rollers in combination with a comb and fixed spikes which draw off the material in detached tufts and present the same to the roller and blades.

Claim.—The combination of the spiked roller c, vibrating comb 6 7, toothed plate h i, roller k, breast l, vibrating blades o 12, bell crank levers 10, and connecting rods z p 9, all constructed, arranged, and operating substantially as and for the purposes shown and ex-

plained.

No. 36,728.—H. W. PUTNAM, of Cleveland, Ohio.—Improved Clothes-Wringing Machine.—Patent dated October 21, 1862.—The sides pieces are provided with a segment ratchet, pawl and cam, by which the machine is secured to the tub. The uppor section of each side piece consists of a cylinder, in which is placed a coiled spring for pressing the rollers together. The ends of the rollers are covered by flanges or lips, both in front and rear, to prevent the clothes from being caught by the ends.

Claim.—The side pieces, constructed in pairs, and consisting of the parts A B C, ratchet D, cam E, and pawl F, in combination with the flanges or lips I I, arranged as and for the

purpose specified.

No. 36,729.—JOHN RICHARDS, of Columbus, Ohio.—Improvement in Lubricators for Scroll Saw Stocks.—Patent dated October 21, 1862.—This invention consists in the combination with two separated bearing and guide boxes of an intermediate tubular lubricating device, the latter having its bore or chamber made with a greater diameter than the bore of the guide boxes, so that while the saw-stock is necessarily fitted snugly within the boxes, a space exists between the saw-stock and the tubular lubricating device, which space serves to contain cotton waste and lubricating fluid.

Claim.—The combination of the bearing and guide-boxes cd, intermediate casing B, and saw-stock, or the equivalent thereof, constructed, operating, and arranged substantially in

the manner and for the purpose described.

No. 36,730.—JOHN RIDGWAY, of Boston, Mass.—Improvement in Operating Ordnance.—Patent dated October 21, 1862.—This invention consists in hanging and arranging cannon upon any suitable framework that can be revolved in a vertical plane either by steam-power or otherwise, in such a manner that the guns themselves shall travel either upon a portion or the whole of the circumference of a circle. With the above is combined such an arrangement of devices as will at the same time permit the guns to travel through the circle of any horizontal plane, so that they can be quickly brought into position to admit of their being rapidly loaded and discharged.

Claim.—First, so arranging and operating an apparatus for mounting guns that they can be susceptible of being revolved in a vertical plane the whole circumference of a circle, substantially as described, whereby they can be successively and rapidly brought to bear upon

any desired point, substantially as described.

Second, in combination with the above, any suitable arrangement of device for giving a horizontal movement around the circumference of a circle to the guns, as described.

No. 36,731.—L. M. T. Riot, of Paris, France.—Improvement in the Manufacture of Soop.—Patent dated October 21, 1862.—The nature of this invention is explained by the claim.

Claim.—First, the employment in the manufacture of soap, of oils and fats treated prviously to the introduction of the alkaline lyes, with sulphuric or other acid, whereby the glycerine is rendered capable of contributing to and entering into the composition of the

Second, the previous preparation of oils with sulphuric or other acid, in such a many that their glycerine may thereby be rendered capable of entering into the composition of the soap, so that soap may be produced by a cold process, by the mere addition of a land to such oil, and especially by the particular mode of proceeding by the cold procher inbefore described.

Third, the mode herein described of manufacturing soap by a cold process, in which well alkaline lyes are combined with olive or other oils, previously treated with an acid, for my purpose of converting their glycerine into a matter capable of entering into the composite of the soap.

Fourth, the manufacturing of what is herein described as a rational soap, which may contain from four to ten per cent. of soda; such soap being prepared by a cold process, as scribed, and with ingredients the proportions of which may be regulated before manufacture.

Fifth, the process herein described, in which tallows and fats, reduced to a liquid or the state, are treated with sulphuric or other acid, to convert their glycerine into a matter can ble of entering into the composition of the soap, and are afterward combined with weaks a bline lyes so as to produce soap.

Sixth, the manufacture of soap by means of oil or fat, first treated with sulphuric or our acid (in such manner as to render the glycerine thereof capable of entering into the cox; action of soap) and then combined with weak alkaline lyes when a hot process is used.

Seventh, the preparation of olive oil for the manufacture of soap by a cold process, in a far as regards the treatment of such oil (before combining it with alkaline lyes) with sulf in ric acid, in the proportion of six thousandth parts by weight of acid to one part by weight of soil.

No. 36,732.—Alfred Rix, of San Francisco, Cal.—Improvement in Door Letckes—Patent dated October 21, 1862.—This device consists of an oscillating, angular bolt, which catches by its own gravity under a notched cap, in combination with a transversely moved ratchet slide, in such a manner that by moving the slide in one direction, the bolt is bought opposite the notch in the cap, and the door can be opened; and by moving the slide in the opposite direction, the bolt drops down by its own gravity and catches under the cap, who is locked. The parts are so arranged that the latch can be applied to either a new or left-hand door.

Claim.—The arrangement of the angular oscillating bolt A, in combination with the sorted transversely moving slide C and notched cap D, all constructed and operating substantiant in the manner and for the purpose herein shown and described.

No. 36,733.—WILLIAM ROWAN and J. M. H. GILL, of Freeport, Pa.—Improvement is Grain Screens.—Patent dated October 21, 1862.—The screen is placed upon a fixe! " adjustable bar, between friction rollers or other bearing surfaces, and operated through adjustable bar, between friction rollers or other bearing surfaces, and operated through adjustable bar, so arranged that a combined longitudinal and lateral vibratory more ment will be given to the screen.

Claim.—The adjustable bar P, provided with the friction rollers dd, or equivalent six bearing surfaces for the screen L, in combination with a crank or crank-wheel J, on which the upper or feed end of the screen rests, substantially as and for the purpose set forth.

No. 36,734.—G. K. Snow, of Watertown, Mass.—Improvement in Holders for Bills. Notes, &c.—Patent dated October 21, 1862.—This device consists of one or more holders made in the shape of a trough or tray, having an inclined bottom, and provided with a presser attached to the tray, so that by swinging, lifting, or rolling the presser, one or notes will be admitted beneath it, and the same be held in position by the weight of the presser, and also be readily withdrawn when necessary.

Claim.—As a new article of manufacture, the tray or trough when made with a consection, substantially as shown, and provided with a presser connected therewith accordant provided with a presser connected therewith accordant provided with a presser connected therewith accordant provided with a presser connected therewith accordant provided with a presser connected therewith accordant provided with a presser connected therewith accordant provided with a presser connected therewith accordant provided with a presser connected therewith accordant provided with a presser connected therewith a consequence of the presser connected therewith a consequence of the presser connected therewith a consequence of the presser connected therewith a consequence of the presser connected therewith a consequence of the presser connected therewith a consequence of the presser connected therewith a connected therewith a connected therewith a connected therewith a connected therewith a connected therewith a connected therewith a connected therewith a connected therewith a connected therewith a connected therewith a connected therewith a connected therewith a connected therewith a connected therewith a connected therewith a connected therewith a connected the connected therewith a connected the connected therewith a connected the connected therewith a connected the connected there is a connected the conne

Also, the combination of two or more such trays or troughs, and their respective present substantially as shown.

No. 36,735.—THOMAS SPENCER, of Syracuse, N. Y.—Improvement in Selting Medi.—Patent dated October 21, 1862.—After the deliquescent salts have been removed by wash to the salt used in making the brine, they are neutralized by putting into the brine an equivalent of carbonate of soda.

Claim.—In the process of curing meats, making the brine by washing the salt to be red for packing, and thereby removing therefrom the deliquescent salts, and then neutralithe deliquescent salts in the brine, substantially as and for the purpose herein described

No. 36,736 .- MILES SWEET, of Troy, N. Y .- Improvement in Curry-Combs .- Patent dated

October 21, 1862.—This invention is explained by the claim.

Claim.—A curry-comb having separate trough-like comb bars A, secured to a back B by lugs or projections c c, formed in one piece with the back, and bent over upon and against the ends of the comb bars, substantially as herein set forth.

No. 36,737.-T. R. TAYLOR, of Cleveland, Ohio.-Improvement in Machines for Nuts.-Patent dated October 21, 1862.—This machine is composed of a sliding frame working in ways or guides, and operated by means of a crescent-shaped cam and crank. To this frame is attached, by means of articulated joints, a pair of jaws, which are wedge-shaped at their lower ends, so as to enter a slot in the bed-plate. Attached to the sliding-frame is a die M, which moves up and down with the same, and attached to a horizontal sliding frame is a moving die N, through the centre of which works a punch, by which means nuts of various sizes and forms can be made wholly by pressure from the heated bar, and punched ready for the screw-thread.

Claim.—The sliding-frame G, in combination with the jaws I I and dies M and N, when

constructed and operating substantially as and for the purpose specified.

No. 36,738.—H. G. THOMPSON, of New York, N. Y.—Improvement in Machinery for Sizing the Backs of Carpets.—Patent dated October 21, 1862.—This invention consists in the employment of an inverted adjustable table, below which is a rotating brush, by means of which latter the back of the carpet is sized as it passes over the table. Between the rotating brush and the dryingcylinder there is interposed a series of longitudinal steampipes, connected at their ends with cross-pipes. A suitable mechanism is employed for the carpet and keeping it moving distended in passing under the table.

Claim.—First, the combination of the rotating brush and the adjustable table for the purpose described, the distance between the two being adjustable, substantially as and for

the purpose described.

Second, the combination of the rotating brush and table with the mechanism for moving and keeping the carpet distended, substantially as and for the purpose set forth.

Third, the combination of the rotating brush, the table, the mechanism for moving the carpet and keeping it distended, and the drying and smoothing cylinder, substantially as and for the purpose described.

Fourth, the combination of the rotating brush, the table, the mechanism for moving

and keeping the carpet distended, the drying and smoothing cylinder, and the interposed drying apparatus, or the equivalent thereof, for partially drying the sizing before it reaches the surface of the drying cylinder, substantially as described.

No. 36,739.—J. A. UNDERWOOD, of Grand River, Iowa.—Improvement in Combined Harrow and Seed Drill .- Patent dated October 21, 1862. - This implement is designed for sowing seed either broadcast or in drills, and at the same time to cover them in the earth by a rotary harrow, the parts being so arranged that the seed-distributing device may be readily mendered inoperative when necessary, as in turning at the end of a field, and the seed-distributing and harrowing device made to operate simultaneously by the forward movement of the machine.

Claim.—The combination of the adjustable wheel L, swivel-rod K, and lever M, with the wheels D, seed-box I, seed cylinder H, and rotary harrow B, all in the manner and for the purpose herein shown and described.

No. 36,740.-P. S. WARD, of Millville, Iowa.-Improvement in Bee-Hires.-Patent dated October 21, 1862.—This hive is formed in two equal parts, between which are placed two metallic plates, so attached to either side as to be easily removed, and also to admit of either part being used separately or in combination. At the junction of the bottom and side boards on the outside of each part of the hive is fitted a triangular block having notches cut in the two inner sides, which open into a space formed by cutting away the bottom edge of the side board and a mortise in the bottom board, for the purpose of admitting the moth to lay its eggs, the same being prevented from entering the hive by a perforated metal plate on the inner side of the side board.

Claim.—First, the combination of the metallic plates H H, hooks and eyes a b, respectively, and rods c c, with the two parts of a divided hive, when the whole is constructed and

arranged in the manner and for the purpose set forth.

Second, the combination of the blocks F and buttons h, or their equivalents, with the mortises of and perforated plate g, when constructed and arranged in the manner and for the purposes set forth.

No. 36,741.—S. W. WARREN, of Brooklyn, N. Y.—Improved Low-Water Detector.—Pat ent dated October 21, 1862.—This invention consists in the employment of a vessel containing mercury within an outer casing, so coupled with a boiler or other reservoir containing water and steam that either water or steam, or both, may be present within the space between the mercury reservoir and its casing, as in a "glass water-gauge," and so that

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when steam is present within said space, its heat shall expand the mercury, causing it w operate against an elastic diaphragm, and by expanding it, to operate through suitable connexions to make a valve for the purpose of sounding an alarm, or for letting off the cudensed water from the steam heating pipe, and for various other purposes.

Claim.—The combination of the casing b with the steam and water pipes c and d the mercury reservoir a, and an elastic diaphragm, when arranged so as to operate together

work a valve, substantially as and for the purpose set forth.

No. 36,742.—JAMES WEED, of Muscatine, Iowa.—Improved Tree and Plant Protector.— Patent dated October 21, 1862.—This device consists of a fixed and movable trellis combined upon which trees or other plants may be trained as espaliers, over which are fitted to be shutters and doors for the purpose of protecting the plants from the effects of ice and cod.

Claim.—First, the compound trellis C C', arranged substantially as and for the purpose

shown and described.

Second, the arrangement of the simple and folding shutters D D', in combination with a without the trellis C, as and for the purpose specified.

No. 36,743.—JOSHUA WHITTEMORE, of South Reading, Mass.—Improvement in Crutches.— Patent dated October 21, 1862.—The crutch is composed of two separate pieces of cast: wood which are brought together and inserted within a socket-piece at their lower ends. Their upper ends are connected by means of a flexile arm-rest, consisting of a cushion or stuffed pad. Within the lower part of the crutch is a tapering socket provided with a server nut for receiving a male screw which projects upward from a jawed socket-piece, the law being made with a recess, within which and projecting from it is an India-rubber or chark buffer. Above the recess the jawed socket is formed so as to receive and grasp the shark of a metallic spur which extends down either through or into the middle part of the class: buffer.

Claim.—The crutch as made of two separate spring bars A A and the flexible arm-rest E.

substantially as specified.

Also, the India-rubber or elastic buffer I, in combination with the crutch provided with a socket or buffer holder.

Also, the combination of the spur K with the elastic buffer and the crutch.

Also, the jawed socket-piece made in manner and to operate as explained, in combination with the crutch, elastic buffer and the spur, substantially as described.

No. 36,744.—M. G. WILDER, of West Meriden, Conn.—Improvement in Machine fr Milling and Cutting Metals.—Patent dated October 21, 1862.—In this machine the seven parts are so constructed and arranged as to enable any form or grade (either regular of variable) of spiral or bevel on any article or portion of the same to be cut as may be desirable. by the use of a rack and pinion (one or more) in connexion with a bevel gear wheel and index and the swivelling or revolving and rotating motions of the main spindle, and the act of the adjusting screws at right angles (or otherwise) to be worked by hand, bands of gearing.

Claim.—The combination of the main spindle M with the revolvable ways G, when so exstructed and arranged as to allow the spindle to revolve through a complete circle both horizontally and vertically, and the whole is constructed, arranged, and made to operate sa-

stantially as herein described.

Second, the combination of the main spindles M, with the cutter holder E, when so castructed and arranged that the article being wrought may be placed by it in every position. and at every angle with the cutter, substantially as herein described.

Third, the combination of the cutter stock with the revolvable and rotating spindle and

adjustable rack, as and for the purposes set forth.

Fourth, cutting spirals either regularly or irregularly, varying the direction of the pixe une of the rack, substantially as described.

Fifth, the combination of an adjustable dead centre with the main spindle, in such a manner as that the centre shall remain concentric with the spindle during the whole operative

No. 36,745.—SAMUEL WOOLSTON, of Vincent Town, N. J.—Improvement in Marin. Camels.—Patent dated October 21, 1862.—The body of the camel is divided into three long: tudinal compartments, by two partitions and the two outer compartments sub-divided by the transverse partitions. Upon one side of the camel is a series of arms constituting a plater upon which the vessel is to rest when fastened to the camel. When in use the inner out. partments are filled with air to buoy up the vessel, while the outer ones are filled with water to counteract the weight of the vessel.

Claim.—The above-described improvement in camels, the same being provided with separate water compartments on the opposite sides and arms or a platform B, constructs.

arranged, and operated substantially as set forth for the purposes specified.

No. 36,746.—J. R. WILLIAMSON and SAMUEL FORSYTHE, of Seabeck. W. T.—Impres ment in Sawing Machines.—Patent dated October 21, 1862.—This invention consists in the

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arrangement of a hinged-roller arm, the rear end of which slides on the eccentric edge of the standard that serves to feed the log toward the saw, in combination with the hook or dog intended to fasten the log at the inner side, and with a hand lever in such a manner that by the action of said hand lever and roller arm, the hook together with the log is drawn up tightly against the face of the standard and held firmly as the sawing proceeds. A triple crank lever is combined with two slotted connexion rods and with the two shells that form the nut for the screw that serves to feed the standard and log towards the saw, in such a manner that the said shells can be thrown in or out of gear with the feed screw, and that the standard can be moved independently of said screw when desired. Secured to the sliding standard is a telescopic tube surrounding the screw in such a manner that an accumulation of sawdust in the screw thread is prevented and a correct action of the two half shells insured. On the sub slide of the log is arranged an adjustable roller for the purpose of keeping the lumber on

the log steady, and preventing the same from springing during the operation of sawing.

Claim.—First, the arrangement and combination of the slotted roller arm F, eccentric edge i of the standard C, hook c, and hand lever E, all constructed and operating substantially

in the manner and for the purpose shown and described.

Second, the arrangement of the triple crank lever n and slotted connexion rods l p, in combination with the two halves of the nuts k or v, constructed and operating in the manner and for the purpose specified.

Third, the employment of the telescope tube G, in combination with the screw D, divided

nut k and standard C, substantially as and for the purpose set forth.

Fourth, the arrangement of the roller J in the adjustable standard H, on the slab side of the log, for the purpose described.

No. 36,747.—W. H. WOOD, of Hudson, N. Y.—Improvement in Piers and Bridges.—Patent dated October 21, 1862.—This invention is explained by the claim and engraving.

Claim. - A pier or bridge constructed of hollow cast-iron columns B, fitted on wooden piles A, driven into the bed of the river or stream, filled with concrete or cement C, and supporting by means of braced girders D E, and arched flooring F, covered with sand or cement G, on which a trap rock or other suitable pavement II is laid, substantially as herein set forth.

No. 36,748.—J. R. WILLIAMSON and SAMUEL FORSYTHE, of Scabeck, W. T.—For Saw Gear .- Patent dated October 21, 1862 .- This invention relates to an improvement in those parts of a saw gear which serve to feed the log toward the saw and to determine the thickness of the board to be cut, the said parts being so arranged that the thickness of the cut can be changed at pleasure, and that the feed can be effected by hand or automatically by the machine itself as may be desired, and that in gigging back, the feeding device can be automatically thrown out of gear or rendered ineffective.

Claim.—First, the arrangement of the adjustable catches g i or their equivalents, in combination with the endless chains b b', and standards C C', constructed and operating

substantially as and for the purpose described.

Second, the arrangement of the disk m, vibrating brackets o, and pawls p p* in combination with the shaft D and standards C C', as and for the purpose set forth.

Third, the arrangement of the adjustable inclined plane F, in combination with the friction gear E, constructed and operating substantially as and for the purpose specified.

Fourth, the arrangement of the index u, and dial u' in combination with the inclined plane

F, as and for the purpose described.

Fifth, the additional inclined plane H and hinged roller r, in combination with the inclined plane F and friction gear E, constructed and operating substantially as and for the purpose set forth.

No. 36,749.—V. R. BEACH and JUBE DAY, of Independence, Iowa, assignor to Themselves and C. L. Patrick, of Buchanan county, Iowa.—Improved Sugar Evaporator.—Patent dated October 21, 1862.—Extending longitudinally through the evaporator is a partition provided with a proper aperture and gate. In each compartment are arranged cross partitions provided with strainers. Attached to the evaporator under the distributing spout is a cooler made of wire cloth, by which the sirup escapes in small streams and is cooled before entering the receiving cask. The furnace is provided with dampers for directing the heat of the tire under either the cleaning or finishing apartment as may be desired. the fire under either the cleaning or finishing apartment as may be desired.

Claim.—The construction of a pan with a central partition extending lengthwise, with a

gate and strainer therein, for the uses and purposes herein set forth.

Second, the arrangement of cross-partitions with strainers at the bottom, in combination with the central partition, for the uses and purposes as herein set forth.

Third, in combination with the said pan and central partition, the construction of the cooler, for the uses and purposes as herein set forth.

Fourth, in combination with an evaporator so constructed, the arrangement of dampers in the fire furnace, for the uses and purposes as herein set forth.

No. 36,750.—CHARLES BESLEY, of Paris, France, assignor to EDWARD HECKSHER, of the same place.—Improved Process of Electro-plating Iron, Steel, &c.—Patent dated October

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21, 1862.—This invention consists in a method of galvanizing metals such as cast or wrough: iron, steel, &c., by an electro-chemical process in which the covering metal is applied indrectly, i. e. by means of an intermediate metal at the ordinary temperature (if above the

freezing point) and by using solutions not concentrated.

Claim.—The electro-chemical galvanization of iron, steel, &c., by combining with a intermediate metal applied in the manner herein described, the method of effecting the galvanization proper at ordinary temperature in solutions not concentrated, substantiary a herein set forth.

No. 36,751.—John Briggs, of Louisville, Ky., assignor to Himself and J. J. Har. of the same place.—Improvement in Tobacco Presses.—Patent dated October 21, 1862.—The box or main portion of this device is constructed of wood, in the form of a scroll in ra transverse section, so as to form a ledge or shoulder through its whole length. Through the centre of the box is a square opening lined with metal plates, and provided with a door.

Attached by means of links to the box is a bifurcated curved metal bar, having an operation in its outer end, through which passes a rod which is hooked at one end, and hind a a link which passes through the ends of two bars, the object being to compress tobacco plags

or rolls for boxing.

Claim.—First, the box or body A, constructed of spiral or scroll form in its transfer section, so to form a ledge or shoulder a, and provided with a door B, in combination with the bar or

lever C, screw rod E, and nut G, all arranged as and for the purpose herein set forth.

Second, the manner of applying the lever C, and the screw rod E to the box or body A to wit, by means of the links or double joints D D, the links F, bars 1 1, and bands e.e. se described.

No. 36,752.—WILLIAM COMBE, of New York, N. Y., assignor to N. O. HAWESHUEST. & Queens county, N. Y.—Improvement in Wooden Sieves for Gas Purifiers.—Patent dated & tober 21, 1862.—The grate bars are made broad at the top, and chamferred off on the unit side so as to form a wider aperture below between the bars, in order to prevent the lodgmen of loose lime, and allow a free passage for the gas.

Claim.—The employment of a wooden grating having the opening made expanding downward to support the lime in dry lime purifiers in gas works, constructed substantially a

and for the purposes set forth.

No. 36,753.—J. B. GREELY, of Summit, Iowa, assignor to Himself and B. L. LATRIX. of Dayton, Ohio.—Improvement in Corn Planters.—Patent dated October 21, 1862.—The slides are operated by means of trippers hinged to the end of the crank-shaft, and by a stake or pole in the hand of the driver, who places the pole as the machine moves along in a previously made mark, when the pole is struck by one of the trippers, as the machine moves along, causing the seed to be deposited in the ground behind the furrow openers

The front parts of the frame rest upon the furrow openers, which are provided with points that run under the surface a short distance. The upper edges of the furrow openers for inclined planes so as to throw off any stock or roots taken up by the points. Below to furrow openers are inclined cutters which force down or cut off any roots left in the ground.

The two frames that form the bearing for the covering wheels are connected by cross-bar the rear one of which rests on spring pads, so that each wheel can rise and fall a certain distance without affecting the other wheels.

Claim.—First, operating the seeding mechanism by means of an independent pole of stake o, placed in the ground by the operator in advance of the seeding mechanism at the posiwhere the seed is to be dropped, so that as the machine moves along the seeding mechanism or some part thereof, will come in contact with the said stake and cause the seed to be instantly dropped at that point, all substantially in the manner herein shown and described Second, the combination with the seed slides h, of the hinged stake strikers or trippers a

rods i, crank shaft j, and spring k, in the manner herein shown and described. Third, the laterally standing inclined face ϵ , projecting point d, and inclined cutting edge f.

on the furrow openers E, as and for the purposes set forth. Fourth, the combination of the spring pads b, with the frames A A', and cross-bars CD. is the manner and for the purpose herein shown and described.

No. 36,754.—C. E. GREEN, of Copenhagen, Denmark, assignor to H. F. HAMMER. of Boston, Mass.—Improvement in Watch Chain Guards or Keys.—Patent dated October 21, 1862.—This device consists of a key head and socket, in which is placed a plunger or cleared which, when the key pipe is entirely within its socket tube, will so close the mouth of the bost of the property of the construction key as to prevent any dirt from entering therein. By pressing back the socket tube into the key head the pipe will project so as to receive the head of the winding arbor of a watch

Claim.—The combination of the clearer a, the key C, the slider B, and the socket rule 1 the whole being arranged substantially in the manner and so as to operate as described.

No. 36,755.—G. L. WITSIL, of Philadelphia, Pa., assignor to Himself and W. L. WATTS of the same place.—Improvement in Coul Oil Lamps.—Patent dated October 21, 1202-Tz

burner is formed of two flat tapering air flues arranged so as to be inclined toward each other at their upper ends, and affo d a large tapering wick chamber between them, in combination with two deflectors curving over the upper ends of the air flues respectively, and ex-

tending laterally beyond them on each side.

Claim.—The two distinct typering air flues A A, in combination with the two deflectors a' a' and the spacious wick chamber B, the same being constructed and arranged, in relation to each other and the cap C, substantially in the manner described and set forth for the purposes specified.

No. 36,756.—George Woods, of Boston, Mass., assignor to Mason & Hamlin, of the same place.—Improvement in Operating Swells in Musical Instruments.—Patent dated October 21, 1862.—Attached to the bellows or receiver is an arm, which is so arranged as to act at the will of the performer upon the roller or lever, which, in turn, acts upon the swell or swells of the instrument, the action being effected by the exhaustion of the air from the bel-lows or receiver, which is governed by the performer through the pedals of the instrument, thereby obviating the necessity of removing the foot from the pedal to a side or independent

Claim.—The operating of the swell or swells of melodeons, harmonicons, or other similar instruments, by the contraction and expansion of the bellows or any elastic receiver connected

with the instrument.

No. 36,757.—JOSEPH FLINT, of Rochester, N. Y.—Improvement in Plastering Trowels.-Patent dated October 21, 1862.—To the back of the plate is riveted, longitudinally, a slender piece of metal, diminishing toward either end, which acts as a stiffener to the plate. the largest portion of this piece, a little forward of the centre, arises the standard, at the top of which is the shauk passing through the wooden handle. Transver-city of the implement the standard is expanded into the form of a disk midway between the shank and plate.

Claim.—Forming the standard for attaching the handles of trowels with the transverse ex-

pansion D, substantially as and for the purpose herein set forth.

No. 36,758.—N. W. NORTHRUP, of Greene, N. Y.—Improved Car Coupling.—Patent dated October 21, 1862.—This invention consists of a series of devices named in the claim, and forming a stationary, self-adjusting shackle bar, attached to one of the cars, and a square, tunnel-mouthed chamber, spring latch, and disconnecting rod attached to the other, by which the cars will be readily and automatically coupled when brought in contact with each other.

Claim.—The compound union adjustable shackle bar h, side springs j, slide bar g, the springs v v, and bracket z, the slit t in shackle bar, the slits b c in the chamber A, the horizontal latch B, spring f, rods p, rocker m, vertical bolt y, shoulder rests b c, all in combination with the rubber spring, bumper D, in the manner hereinbefore stated and for the purposes herein set forth.

No. 36,759.—T. C. Andrews and J. Shinn, of Leverington, Pa., assignor to T. CECIL ANDREWS, of the same place.—For Engraved Plate Printing Press.—Patent dated October 21, 1862.—This invention relates to improvements in presses used for plate printing, by means of which the pressing and inking can be done by steam or other power, whilst the wiping or polishing is to be done by hand. The invention does not admit of a brief description.

Claim.—First, arresting the motion of the plank B' for a certain time, whilst the motive power continues in action, so as to admit of wiping and polishing the plate B by manual labor.

Second, the combination of the endless rails C C and the endless chains c c with the jaws or clamps a a' attached thereto, in the manner and for the purpose above described.

Third, the combination of the switches s s with the endless rails C C, constructed and ar-

ranged substantially as set forth. Fourth, the combination of the plank B', to which the engraved plate B is secured, with the

jaws or clamps a a', constructed and operating substantially as described.

Fifth, operating the pin 1 by the lever b, switches s s, and jaws a a', as or at the time the latter are closed by the switches s s, as set forth.

Sixth, the combination of the conical or V-shaped slots in pins 1 and 2, and the wedgeshaped pins or lugs 3 and 4, with the plank B', as described, to secure the latter accurately in position.

Seventh, the combination of the conical or V-shaped slots 5 and 6 in the plank B' with the wedge-shaped pins or teeth e e in the jaws a a', for the purpose set forth.

Eighth, the scraper M, in combination with engraved plates, arranged and operating as shown, for the purpose set forth.

No. 36,760.—ETHAN ALLEN, of Worcester, Mass.—Improvement in Back Sight for Rifles.— Patent dated October 28, 1862.—This invention consists in so arranging a series of holes in a revolving disk between two plates of metal, with a vertical slot cut through each, that, as the disk is turned from one notch in the periphery to the next, a new hole appears in the slot a little higher or lower than the last, according to the direction in which the disk is revolved.

Claim.—Plate A and disk B, constructed substantially as described and for the purpose set Digitized by GOOGIC

forth

No. 36,761.—CHARLES H. AMIDON, of Greenfield, Mass.—Improvement in Clothes-wringing Machines.—Patent dated October 28, 1862.—In this device the cam, block, and spring area arranged in connexion with the shaft and with a rising and falling cross-bar that conveys pressure to the wringing roll, that the latter will yield freely at either end without the same arranged in the conveys the same arranged in the conveys that the latter will yield freely at either end without the came are conveyed to the wringing roll, that the latter will yield freely at either end without the came are conveyed to the wringing roll, that the latter will yield freely at either end without the came are conveyed to the wringing roll, that the latter will yield freely at either end without the came are conveyed to the wringing roll, that the latter will yield freely at either end without the came are conveyed to the wringing roll, that the latter will yield freely at either end without the came are conveyed to the wringing roll, that the latter will yield freely at either end without the came are conveyed to the wringing roll, that the latter will yield freely at either end without the came are conveyed to the wringing roll, the came are conveyed to the wringing roll, the came are conveyed to the wringing roll of the wringing roll of the came are conveyed to the wringing roll of the came are conveyed to

pressure at the other end.

Claim.—In combination with a turning shaft G, that serves as a shaft and brace both at the rising and falling cross-bar E, the arrangement of the cam h, block f, and spring c intermediately placed on said shaft and cross-bar for the purpose of making pressure on the uper roll D, and allowing said roll to rise at either end, without producing undue pressure at the other end, in the manner and for the purpose herein set forth and explained.

No. 36,762.—C. M. ATKINS, of Pottsville, Pa.—Improvement in the Construction of Relevand Cars.—Patent dated October 28, 1862.—In the angles of the frame of the car are place metal brackets, through which and the timbers and an external bracket are passed belts to the purpose of securing the parts more firmly together and preventing the sides from spring L; out.

Claim.—The cast-iron brackets D, when applied to the inner surfaces of the angles of corners of the car bed or frame, and used in connexion with the external straps or brackets of and bolts a, for the purpose herein set forth.

No. 36,763.—George Bailey, of Buffalo, N. Y.—Improvement in Presses for Stamping Tuckets, &c.—Patent dated October 28, 1862.—In this device the inking ribbon, at each inpression, is slightly moved along by the motion imparted to one of the drums. When the ribbon is transferred entirely from one drum to the other, the motion of the drums is revised by means of a ratchet wheel placed in each drum, in connexion with two pawls affixed to the opposite ends of a vibrating plate, so that when one pawl is engaged the opposite one will disengaged, and by the shifting of these pawls from one ratchet wheel to the other the inking ribbon is made to travel back and forth. In combination with the stamp press and inking ribbon is a set of type wheels for the purpose of indicating numbers or dates.

ribbon is a set of type wheels for the purpose of indicating numbers or dates.

Claim.—First, the combination with the inking ribbon and pawls of two shifting kees or other equivalent devices, so arranged in respect to the plate or arm to which said pawls attached as to effect the shifting or reversing of the direction of travel of the inking ribba

in the manner substantially as described herein.

Second, in combination with the stamp press and inking ribbon, a set of numbering of dating type wheels, arranged and operating substantially in the manner set forth.

No. 36,764.—A. C. BOUK, of Clinton, Iowa.—Improved Mode of Rafting Logs and Timber.—Patent dated October 28, 1862.—This invention consists in connecting the several logs of pieces of timber together so as to form a raft by means of long timbers chained together and ends, in the shape of a parallelogram, thus forming a boom, which encloses the logs of the bers to be rafted, the object being to prevent the loss or damage to logs caused by boring hoses in the usual mode of rafting.

as in the usual mode of rafting.

Claim.—The application of booms to rafting logs and timber in any waters, so as to safe the timber rafted from loss, either by boring every log or by obstructions like bars and safe, thus securing the timber rafted, and transporting the same without diminishing either quality

or quantity.

No. 36,765.—L. D. Bunn, of Morristown, N. J.—Improvement in Corpse Preserver.—Patent dated October 28, 1862.—This invention consists in the arrangement of a manage cooling board fitted into the body chamber with an air-tight joint, in combination with an iso box and cold-air chamber, forming the top or cover of the said body chamber, in such a manage that the body or corpse, laid upon the cooling board and introduced into the body chamber, exposed to the cooling influence of the ice without coming in contact with the moisture water formed by the melting ice, and at the same time convenient access may be had to to corpse if desired, the object being to arrest or check the decomposition of a body for seven days from the time of death.

Claim.—The arrangement of the cooling board C with head-piece a, in combination in the body chamber A, ice-box D, and air chamber E, all constructed and operating sub-in-

tially in the manner and for the purpose shown and described.

No. 36,766.—G. W. Buss, of Boston, Mass.—Improvement in Wagons.—Patent dated to tober 28, 1862.—This invention consists in combining a spring of any proper material in a series of levers or arms in such a manner that the spring will be acted upon near to the fact thereof, and that the elastic force of the sustaining device can be readily adapted to the derivation of compressibility required, so that one and the same vehicle can be adapted to the carrying loads.

of greatly varying loads.

Claim.—First, supporting the wagon by means of the lever or levers and spring or spring arranged with regard to each other and to the axle, substantially as described, so that he spring or springs shall be acted upon at such a point of the lever as receives, comparative.

the shortest play or motion, as set forth.



Second, in combination with the lever or levers, the cross-bar l l or r r, as described, and for the purpose specified.

Third, in combination with the lever or levers i i and axle c c the radial arms f f, the whole operating together as set forth.

No. 36,767.—D. M. Cummings, of Enfield, N. H.—Improvement in Adjustable Hames. Patent dated October 23, 1862.—This invention consists in constructing the face plate with indentations on both sides, and the clasp, with projections on the inside, and connecting the clasp with the terret in such a manner that the hames can be readily adjusted to collars of different sizes, the clasp being moved up or down upon the indentations and kept in place by a strap.

Claim.—First, the combination of the clasp D and its projections b b with the face plate

E and its indentations a a a a, constructed and operating as above set forth.

Second, the combination of the terret C with the clasp D, as above described.

Third, the combination of the face plate L with the clasp D and the terret C, constructed and operating as above set forth.

No. 36,768.—J. C. DAY, of Jersey City, N. J.—Improved Hammock Cot.—Patent dated October 28, 1862.—This invention consists of a canvas hammock, having its edges turned and bound over a rope, by which latter it is supported upon four posts at the corners.

Claim.—The portable army hammock cot, constructed and arranged substantially as de-

scribed and shown.

No. 36,769.—DAVID DICK, of Meadville, Pa.—Improvement in Apparatus for Mineral Oils as Fuel.—Patent dated October 28, 1832.—The nature and object of this invention will be understood from the claim and engraving.

Claim.—First, the employment in a mineral oil furnace of pumice stone or other equivalent porous incombustible material, through which the oil flows, and upon the surface of which it is burned, substantially in the manner described for the purposes set forth.

Second, the combination of a furnace in which mineral oils are employed as fuel, with a water space surrounding the same, substantially in the manner described for the purpose of preventing the overheating of the furnace, and the consequent generation of gas in the firebox as set forth.

Third, the combination in a mineral oil furnace of a water chamber, a fire-box, and a series

of air flues, substantially in the manner and for the purposes described.

Fourth, the combination of an extinguisher plate with a fire-box and air tubes, substantially as and for the purpose specified.

Fifth, perforating the extinguisher plate as described, for the purpose of permitting the escape of the gas, and preventing the entrance of air, as set forth.

No. 36,770.—John Dickinson, of New York, N. Y.—Improvement in Apparatus for Dressing Millstones.—Patent dated October 28, 1862.—This invention consists in a method of graduating the motion of a parallel rule by means of a compensating extension arm or lever and a fixed arm or lever, crossing each other and secured at their ends to the rule and a bed board, so that by means of a connexion with a scroll wheel, having ratchet teeth on its edge, operated by a lever and a pawl, each degree or tooth of the wheel, as the latter rotates, will move the rule a corresponding equal distance on the face of the millstone.

The degrees of motion in the parallel rule are regulated by means of a scale of distances

and an adjustable detent pin.

The motion of the diamond holder is steadied in the parallel rule by means of a raised ledge on the upper side of the double guide way or rule, so as to form a straight edge against which the back of the diamond holder bears.

Secured to the under side of the double guide way is an adjustable shield, composed of thin slips of steel, so as to rest on the face of the millstone, and thus protect the setting of the

diamond, but allowing its point to project below them far enough to cut the stone.

Claim.—The combination of the scroll cam wheel I, the arm or lever C, compensating arm D. operating lever U, and pawls P and Q, for operating the scroll cam wheel, or equivalents of either of the said several parts, in combination with the said scroll cam wheel, to produce the results hereinbefore set forth.

Second, the combination of the graduated scale a2 and adjustable stop b2 with the lever

U and scroll cam wheel I, for the purposes hereinbefore set forth.

Third, the use of the raised ledge c2 on the upper side of a double guide way parallel rule,

for the purposes hereinbefore set forth.

Fourth, the use of the two strips of steel 12 as a shield for the setting of the diamond in dressing millstones, in combination with the guide way d2', substantially as hereinbefore set forth.

Fifth, the use of the two ledges g2 g2, raised on the lower surface of the double guide way,
as to form a channel for the shields f2 to be adjusted in, in combination with the shields f2

for the purposes hereinbefore set forth.

No. 36,771.—Ambler Edson, of Cambridge, Ill.—Improved Washing Machine.—Pass dated October 23, 1862.—Projecting downward into the tub and secured to arms on a star are a series of pins, which rest upon the clothes. A reciprocating motion is imparted to a shaft which carries the pins, by means of a pinion and cogged segment.

The lid is fastened to the tub by forcing slides on the lid into handles, or ears attached with

Claim.—The slides C C, the handles D D, the pivoted arms R R, the lever O, the stire FFGGH and I, in combination with the bevelled pinion K, and the bevelled segment L = represented and for the purpose specified.

No. 36,772.—LEONARD EGGLESTON, of Battle Creek, Mich.—Improved Mode of Fund Bags with Grain.—Patent dated October 28, 1862.—To the upper part of a standard. secured a hopper by means of a clasp, so as to allow the hopper to move up and down the standard. It is held in any desired position by means of an eccentric stop-piece passing is a slot in the standard. A bag may be attached to the hopper for the reception of the gram.—The combination of a movable hopper with the manner of holding it in the re-

quired position, and the manner of attaching the bag to the hopper, substantially as x

No. 36,773.—A. H. EMERY, of New York, N. Y.—Improvement in Projectiles for Refer Ordnance.—Patent dated October 28, 1862.—This invention consists in providing sub-called projectiles, having flat heads or a form approximating thereto, with a soft metallic point of such form as to tend to reduce the atmospheric resistance to the passage of the projection and of such density as to cause the centre of gravity of the projectile to be in front of the centre of volume. The projectile is provided with a compound metallic sabot, which is the centre of volume. signed to hold the centre of the rear of the shot in the axis of the bore, while it transmis the projectile the entire pressure on the section of the bore, shuts off the windage, and ribe the projectiles in rifled guns.

Claim.—First, the construction and use of a soft metallic point arranged with a sub-culier

projectile, substantially as and for the purpose herein described and set forth.

Second, the construction and use of the compound metallic sabot, arranged with a sab calibre projectile, substantially as and for the purposes herein described and set forth.

No. 36,774.—JOSIAH EVELAND, of Elizabeth City, N. J.—Improved Mode of Consumer Fellies of Wheels.—Patent dated October 28, 1862.—The adjoining ends of two fellies are fitted and secured in metal sockets, provided respectively with a dovetail tenon and recommend the tenon is dovetailed both longitudinally and transversely, so as to prevent the sockets.

from being drawn apart or depressed, or forced inward.

Claim.—Having the sockets C C' provided respectively with a tapering dovetail and the sockets C C' provided respectively with a tapering dovetail and tapering dovet and a tapering dovetail recess, fitting and operating together in the manner herein shows and described, so as to form a firm but easily separable connexion between the ends of 🗗 fellies and prevent all lateral and inward spreading or bending of the felly ends, as set forth

No. 36,775.—George B. and C. B. Garlinghouse, of Allonsville, Ind.—Improvement of Harvesters.—Patent dated October 28, 1862.—Projecting opposite each other from the fig. wheel and crank, respectively, are two conical or conoidal pintles or gudgeons, which case. sockets or countersinks on opposite sides of a pitman near its rear end. The outer end. this pitman consists of two branches, armed on their opposing sides with other and armodomical or conoidal gudgeons, and which occupy sockets in the heel of the cutter bar. It latter named gudgeons are brought to their bearings by means of a screw-bolt and not to the former by one or more screws. An outward spring being given to the branches of the pitman, causes them to press firmly against the nut and bolt head, and prevents their shaking loose by the violent agitation of the bar.

Claim.—First, the conical or conoidal coupling hinge K K' L L, and set screws F F arranged and adapted to the cutting apparatus of a harvester, in the manner and for the parameters are also appearance of a harvester, in the manner and for the parameters are also appearance of a harvester.

poses set forth.

Second, the branched pitman m m', having conical or conoidal gudgeons K" K", w jar' able in the line of their common axis, within corresponding sockets in the cutter lar means of a screw N, or its equivalent, substantially as set forth.

No. 36,776.—J. T. GILMORE, of Barton, Ohio.—Improvement in Machinery for Transitional Staffing, and Fine-Dressing of Millstones.—Patent duted October 23, 1862.—The o this invention is to embody in one and the same machine an arrangement of parts by " the various operations of training, staffing, and fine cracking and laying out the process and subordinate furrow on the surface of millstones, the parts being capable of each process adjustment of the process of the parts being capable of each process. ready adjustment, so as to insure the certainty of the various operations named.

Claim.—First, specifically, the employment of the arm S, with its dovetailed guide T. the socket slide and set screws ef and g, constructed and operating as and for the purpose

set forth.

Second, in combination with the suid arm the shaft W, with its crank plate it, better

geared wheel X', and set screw U, the same being attached to and used in combination with the other parts of the machine, to wit, the slide K, cross-plate G, dovetailed guide H, screw shaft I, nut O, bevelled-geared wheel N, and crank plate R; said several parts connecting with the circular pivot plate F, clips c and c', sleeve D, double flange E, hollow journal A, branch feet B, set screws c", cap plate a, screw bolts b, and lever nut y, the whole constructed and operating as described and for the purpose specified.

Third, the mode described for attaching the machine to the bed and runner stones by

means of the branched straps and grappling arms, secured as described, for the purpose set

Fourth, the employment of the small training and staffing block i, with its shaft fitting into the socket slide e, and adjusted and secured by the screws f and g, as described, and operating in combination with the horizontal movement of the arms, for the purpose specified.

Fifth, the peculiar arrangement for using and controlling the diamond, in combination with the said arm 8, the parts constituting said arrangement being formed of the stock j, diamond handle i, pivoted to said stock at m, spring u, hooked finger o, lever p, and handle r, constructed and operating as set forth and for the purpose specified. Sixth, attaching the arm 8, with its dovetailed guide T, socket slide e, and screws f and g.

to the circular plate F, said plate having a shoulder t, as shown in Fig. 9, and using the same in combination with the sleeve D and hollow journal A, as described and for the purpose stated.

No. 36,777.—BENJAMIN GONZALES, of Goodland, Ind.—Improved Chest and Table for Bread-Making.—Patent dated October 28, 1862.—This invention consists in an arrangement of chests for holding meal and flour, and of other depositories or compartments, in connexion with a moulding board for the purpose of facilitating the operation of bread, cake, and pastry

making.

Claim.—The combination and arrangement of the several parts, comprised in the method of opening and closing the flour chest E, by lowering and raising the molding board A, the relation of the flour chest E, by lowering and raising the moulding board A, the relation of the flour chest E, meal chests B, and moulding board A, the relation of the side depositions r v, &c., to the flour chest E, meal chest B, and moulding board A, and the mode of attachment of meal chest B to flour chest E, in the manner and for the purposes described.

No. 36,778.—B. F. Gossin, of Cincinnati, Ohio.—Improvement in Machines for Making Joint Fastenings for Railroad Rails.—Patent dated October 28, 1862.—This machine is designed for shaping thick plates of wrought-iron into a crimped form adapted to fit and embrace the side of a railroad rail, and the invention consists mainly in an arrangement of two or more convex swages or dies adapted to approach each other simultaneously, and n convex counter die, so as to crimp without dragging or straining the metal.

Claim.—First, the arrangement of stationary bed and hardy C D, clamping gauge L M,

and simultaneously conveying dies E E', or devices substantially equivalent, the whole being

combined and operating together, as set forth.

Second, the yielding supports K, for the temporary support of the blank, in the manner set forth.

No. 36,779.—SERRE HOWARD, of Elyria, Ohio.—Improvement in Breech-loading Fire-arms.—Patent dated October 28, 1862.—This invention will be understood by reference to

the claim and engraving.

Claim.—First, combining the barrel and the stock of an improved fire-arm with each other through the medium of the hollow breech piece B, which has an oblong opening in the side thereof for the temporary reception of a metallic cartridge; but this is only claimed when the said cartridge is driven forward into the chamber of the barrel of the fire-arm, and is then provided with an unyielding recoil block by means of the tubular piston E, and the levers F and G, which are combined with each other and with the hollow breech-piece D, substantially in the manner herein set forth.

Second, opening and closing the lateral aperture in the breech piece of my improved breechloader by means of the tubular piston E, which fits accurately within the bore of the main compartment of said breech piece, and is operated therein in a longitudinal direction, sub-

stantially in the manner herein set forth.

Third, operating the tubular piston E by means of the levers F and G, in connexion with the slot in the under side of the tubular portion of the breech piece B, substantially in the manner herein set forth.

Fourth, the arrangement of the trigger c, the bridle d, the sear c, and the sear spring i with each other, and with the hammer rod H, the main spring b, the tubular piston E, and the levers F and G, substantially in the manner and for the purpose herein set forth.

Fifth, the arrangement of the set trigger g and the sliding pin y, with the sear c and the lever F, substantially in the manner and for the purpose horein set forth.

Sixth, combining the barrel C with the breech-pin B, by slipping a portion of the but: of the former within the mouth of the latter, and then securing said connexion by means of reears z and w, the hinged loop h and the set screw m, in the manner herein represented party described. Digitized by GOOGLE

Seventh, combining toothed and movable valve plug g, with the head O of the tubular piston E, and with the valve seat within the same, in such a manner that a slight degree of inward pressure upon said valve plug will produce a perfectly tight joint at that end of the said tubular piston, substantially as herein set forth.

No. 36,780.-J. M. GROSH, of Shaefferston, Pa.-Improvement in Harvesters.-Patent dated October 28, 1862.—This invention consists in the employment of a jointed automatically acting rake handle or arm, in combination with a slotted shaft, cam, pintle, spring and stationary discharge adjusters in connexion with the harvester, and operates simultaneously with the cutting of the grain by gearing driven from the main driving wheel.

The compressing and bundling claws are so constructed as to admit of ready access of the

fingers between the shafts and the bundle of grain, for the purpose of facilitating the passage of binding straws, cords, or wires around the bundle.

One series of the claws is attached to a revolving or turning disk, and to a spring, the said

disk being combined with the shaft of the jointed rake arm.

Claim.—First, the jointed sliding rake arm, applied and operating substantially as and for the purpose described. Second, widening the claws of the binding device between their axis and their inner curved

edge, substantially as and for the purpose described.

Third, the arrangement of means specified for opening and closing the claws alternately, as set forth.

No. 36,781.—THOMAS HUNTER, of New York, N. Y.—Improvement in Portable Shields for Riflemen.—Patent dated October 28, 1862.—This device consists of a shot-proof armature or shield, which is capable of being carried from place to place, and readily put up in any desired spot, so as to protect one or more riflemen, and afford a convenient rest for their rifles while taking aim. The said armsture is constructed so as to be readily folded up for transportation and be converted into a bedstead or table, as occasion may require.

Claim.—The portable folding armature S, made of three or more shot-proof sections A, B, C, connected by hinges a, b, substantially as described, so that the same can be used as an

armature table or bedstead, in the manner specified.

Also, the application of the rest F, in combination with the section C of the armature S, as and for the purpose set forth.

No. 36,782.—Daniel Hussey, of Nashua, N. H.—Improvement in Bobbins.—Patent dated October 28, 1862.—This invention consists in the employment of a double-coned bobbin or spool, each of the end parts being of greater diameter than the body, and in winding or laying the roving or yarn thereon by increasing the width of each successive layer of the roving or yarn until the cones and the body, or the part of the bobbin uniting them, shall be completely covered, and subsequently diminishing the width of each succeeding layer of such yarn or roving until the requisite amount thereof shall have been wound on the bobbin.

Claim.—The double-coned bobbin or spool, made as described, and the formation of the

mass of roving thereon, in the improved manner substantially as specified.

No. 36,783.—Lyman Hutchins, of Norwich, Conn.—Improved Camp Bed.—Patent dated October 23, 1862.—This device consists of a folding frame provided with a pillow frame hung on a rod, and with legs so constructed and arranged as to admit of its being readily unfolded and used as a settee or bed.

Claim.—The folding frame a, in combination with the pillow n, rod h, and legs d g j, ar-

ranged substantially in the manner and for the purpose described.

No. 36,784.—J. H. Jones, of Dayton, Ohio.—Improvement in Separator and Smut Mechines.—Patent dated October 28, 1862.—In this machine the grain is secured by passing it through a spiral scouring surface on the inner side of the cylinder.

The blades of the beater are set obliquely, so as to throw the grain against the screw groove, and also to produce an upward current in connexion with wings on the bottom of the beater

and a fan.

The frame of the screening apparatus is made in one piece and possesses the properties of a spring, being attached by means of clamp buttons to the sides of the frame so as to spring backward and forward.

Claim.—First, a scouring cylinder, which answers as a concave for a smut or grain-clearing machine, whose inner circumference is dressed with a screw or spiral scouring surface, substantially as and for the purpose set forth.

Second, the combination with such screw or spiral scouring surface, of a beater C C, whose blades J J and wings d d are arranged and operate in the manner and for the purpose substantially as described.

Third, the sieve and frame J J', so constructed and arranged on a smut or grain-cleaning machine that the frame supports and acts as springs to the sieve, substantially in the manner

and for the purpose described.

Fourth, the combination of the screw concave, the beater, the trunks M L, suction sport H H, fan D I, sieve J J', and shaft B E F, the whole constructed, arranged, and operating substantially as described. Digitized by GOOGIC

No. 36,785.—W. H. JORDAN, of Roseville, Ind.—Improvement in Caltivators.—Patent dated October 28, 1862.—The ploughs are attached to bars, one of which latter is placed on the axle and the other connected with the frame, and to the bars is attached a lever, by means of which the driver is enabled to raise and adjust the ploughs to the proper depth.

Connected with the main axle is a laterally sliding frame which is moved by a lever under the control of the driver, so that the machine may be made to conform to the irregularities of

the rows of the plants.

Claim.—The ploughs J', when arranged so as to be simultaneously raised and lowered by the turning of the bars I G, connected by a rod or bar J, as shown, in connexion with the laterally adjustable frame A, connected with the axle E, and all arranged as and for the purpose net forth.

No. 36,786.—JOHN LAUGHLIN, of Gettysburg, Pa.—Improvement in Mode of Attaching and Detaching Whiffletrees.—Patent dated October 28, 1862.—To the under side of the whiffletree are secured two spring bolts, the outer ends of the springs being loose while the bolts secured to them near their outer ends pass into openings for their reception in ferrules at the ends of the whiffletree. To the under side of the whiffletree are also attached boxes I I, in which are the fulcra of the two levers, provided with journals which fit in openings in the sides of the boxes. One end of each lever passes into an ear on the end of the spring bolts, the inner ends of the said levers being operated upon by means of straps G attached to them. These straps are connected by a bar or rod H, to the centre of which bar is secured a strap which passes up over the dash board of the vehicle and serves to operate the levers.

Claim.—The arrangement of the spring bolts E E, the bent levers F F, the boxes I I, the straps G G J, and the bar H, constructed and operating in the manner and for the purpose

berein specified.

No. 36,787.—JOHN LEES, of Racine, Wis.—Improvement in Churns.—Patent dated October 28, 1862.—The dashers are attached to arms connected with a series of levers so arranged and operated by the revolution of a wheel or crank as to cause the dashers to approach and recede from each other in the box.

Claim.—The construction and arrangement of the dashers No. 2 No. 2, connecting rods No. 3 No. 3, attached to driving wheel No. 1, the whole constructed and operating substan-

tially as hereinbefore set forth.

No. 36,788.—C. McGinniss, of Chicago, Ill.—Improvement in Smut and Separator Machines.—Patent dated October 28, 1862.—For a description of this invention reference must be had to the specification and drawings.

Claim.—First, in combination with the surrounding perforated internally ribbed cylinder G g g', the angularly corrugated scourer G g' m m' n o p, the whole constructed and opera-

ting substantfally in the manner and for the purpose specified.

Second, arming the scourer G' and the vertical ribs g, and upper head of the cylinder G,

with oval form projections g', as described.

Third, providing for the uniform distribution of the grain in its passage from the shoe U to the shoe V, by means of inclined distributing channels or their equivalents, on the bottom of the shoe U, substantially as described.

Fourth, the combination of the slotted adjusting rods to to and hinges a u, substantially as

and for the purpose described.

Fifth, the combination of the screening shoes U and V with the slotted adjusting rods w w, and hinges a a, the whole arranged and operating substantially in the manner and for the purpose described.

No. 36,789.—John Platt and William Richardson, of Oldham, England.—Improvement in Cotton Gins.—Patent dated October 28, 1862.—This invention relates to that description of gin known as "McCarthy's," in which one roller is employed in conjunction with a fixed and vibrating blade, and it consists in the employment of two of such vibrating blades acting alternately upon the usual roller and fixed blades and in the adaptation of apparatus whereby the material is regularly supplied to the roller and blades, and is presented thereto in a more open and suitable condition for the separation of the seed

Upon the roller a is a crank pin a connected to a block p, to which are adapted two rods q, encircled by springs which abut against a second block p through which the rods q pass and in which they are capable of sliding. The block s is connected by a centre pin to a lever fixed upon a shaft s, by which the latter is caused to vibrate in its bearings. To the shaft sis attached a series of combs v extending across the machine, which combs in vibrating with the shaft a pass through a series of stationary combs, and thence through the teeth of a spiked

Claim.—First, the two alternately reciprocating blades c h, constructed and arranged to operate in combination with each other and with the roller a and breast b of the McCarthy

cotton gin, in the manner and for the purposes herein shown and explained.

Second, the employment or use of combing or carding instruments, substantially as herein described for opening the material preparatory to its presentation to the ginning mechanism a b c. Digitized by GOOGIC

Third, the transferring comb u v constructed as described, and employed to present the material in tufts to the ginning mechanism a b c, substantially as and for the purpose st forth.

Fourth, the elastic or yielding connecting rod o p q employed to operate the comb st. sate stantially in the manner described.

No. 36,790 .- N. W. NORTHRUP, of Greene, N. Y. - Improvement in Combined Car-Wheel and Car-Axles.—Patent dated October 28, 1862.—One wheel is firmly secured to the axle and turns with it, the other revolves loosely upon the axle. The follower or nut D is made in two parts so as to allow it to tighten on the axle and is screwed into the inner side of the wheel. In the screw joint of the wheel and follower is inserted a set screw to prevent the follower from being moved from its place.

Claim.—The divided follower D, set screw C, on axles B, in combination with the tight

wheel E, in the manner and for the purpose hereinbefore set forth.

No. 35,791.—GLENDY MOODY, of Falmouth, Maine.—Improvement in Machines for Spreading and Turning Hay.—Patent dated October 28, 1862.—This invention consists in the conbination with a carriage provided with a suitable actuating mechanism, of a series of independent reciprocating forks which receive a united reciprocating motion from a series of

The upper cross-bar N is clamped to the upright standard of the carriage by means of loops and slots which allow the forks to be adjusted to the right or left, and higher or lower as a casion may require. The handles of the forks pass through eyes attached to the upper crossbar, which eyes are allowed to turn or swivel to accommodate the movements of the forks.

Claim.—First, a reciprocating bar M with forks L pivoted to it, and operated by means of cranks, or other equivalent eccentric movement, substantially as and for the purposes set

forth.

Second, the combination of a carriage A with suitable actuating gearing and a series of independently reciprocating forks L, which receive a united reciprocating motion from a series of cranks or equivalent eccentric means, substantially as and for the purposes set forth.

Third, the cross-bar N with its slots j and loops i, or equivalent means, in combination with

the uprights g g, for the purpose of adjusting the forks, substantially as described.

Fourth, the swivelling eyes f, in combination with the bar N and pivoted forks E, substantially as described. tially as and for the purpose set forth.

No. 36,792.—G. A. POPPY and C. H. COLEGROVE, of Rochester, N. Y.—Improvement in Water Elevators.—Patent dated October 28, 1862.—The crank end of the shaft is provided with a ratchet wheel having a balance pawl to prevent the wheel from running backwards On the other end of the shaft is a compound clutch and lever which embraces the shaft and hub of the pulley. The clutch is moved back and forth upon the shaft by means of a lever.

one end of which is attached to the cart, while the other end projects in front of the shall Claim.—The compound clutch and brake G, in combination with the spring lever L weighted pawl F', and pulley C, when these parts are constructed, arranged and operated a

and for the purpose herein set forth.

No. 36,793.—N. B. Powers, of Lansingburg, N. Y.—Improved Composition for Sing for Use in the Manufacture of Floor Cloths, &c.—Patent dated October 28, 1862.—The ingredients of which this compound consists are blood and tannin, with or without linseed or other oils, to be applied to textile fabrics, such as canvas, used in the manufacture of oil-cloths, or other textile fabric or paper.

Claim.—The employment or use of a sizing compound made of the within described ing

dients, mixed together in about the proportions specified.

No. 36,794.—N. B. Powers, of Lansingburg, N. Y.—Improved Composition for Sizes and Steeping Floor Cloths, &c.—Patent dated October 28, 1862.—This invention consists: the employment, as a sizing compound, of a composition made of blood and lime, with er without linseed or other drying oils, to be applied to canvass used in the manufacture of floor of cloths, &c.

The employment or use of a sizing compound made of the ingredients herein spe-Claim.-

cified, and mixed together in about the proportions set forth.

No. 36,795.—JOHN PRICE and WILLIAM LEWIS, of Danville, Pa.—Improvement in Piles for Railroad Rails.—Patent dated October 28, 1862.—The top which forms the outer surface of the head of the rail is made with flanges projecting downward on each side of the layer of layers directly beneath it, leaving a recess between the points of the projecting flanges and the layer below them, of near the thickness of a layer, so that when rolled into a T rail the flanges of the upper layer will embrace the entire head of the rail and thus prevent the same from stripping or scaling off.

Claim.—The employment of the flanged layer i on top, or on top and bottom of the pile A. when the same is used in combination with the layers kgf, and arranged so as to form rceases k between the points of its flanges and the next adjoining layer f, as and for the per-

pose shown and described.

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No. 36,796.—M. B. RIGGS, of New York, N. Y.—Improvement in Guard Fingers for Harvesters.—Patent dated October 28, 1862.—Upon the upper side of the finger is a seat for the cutter bar, immediately below which is a cavity E, the bottom of which latter forms a seat to which the stationary cutter is secured. The stationary cutter is formed of plate steel, the shank of the blade being narrower than its body, and is bent downward to fit the bottom of the cavity when it is secured by means of a screw or rivet.

Claim.—First, the construction of the finger with a cavity E, so arranged as to permit the fastening of the stationary cutter J, as described; and also, so as to secure nearly equal thickness to the walls, sides, and parts of the finger throughout, as and for the purpose hereinbe-

fore described.

Second, fustening the blade J beneath the cutter bar, in the manner set forth and for the purposes specified.

No. 36,797 .- J. B. BOACH, of Elizabethport, N. J .- Improvement in Slide Valves of Steam Engines.—Patent dated October 28, 1862.—The valve is composed of two pieces B C, the piece B working upon the seat a a, and containing the usual exhaust cavity. The piece C is arranged between B and the back of the valve chest, and is made with its two faces parallel therewith in a direction lengthwise of the valve, but inclined to each other in a transverse direction, so as to prevent any steam from getting between it and the surface inside the back or cover of the chest, and also operating as a wedge between the piece B and the said surface, thereby adjusting the said piece to the seat a a, and while confining it to the seat protects its back from steam pressure. The pieces B and C are provided with lugs and screws, by which the valves may be adjusted without removing the cover from the steam chest.

Claim.—The combination of the two inclined pieces B C and adjustable screws j g with each other, and with the valve seat a and back b b, in the manner herein shown and de-

scribed.

No. 36,798.—GREGORY ROTH, of Cincinnati, Ohio.—Imporvement in Candle-Moulding Machines.—Patent dated October 23, 1862.—This device consists of a rack frame containing three horizontal stationary rack plates and a movable rack plate or slide, capable of a slight longitudinal movement. Each plate is pierced with a number of equal and equidistant circular apertures, slightly larger than the candles. Of these, the apertures in one of the plates are flared downward upon one side to facilitate the descent of the tip mould while a portion of the slide acts in conjunction with the stationary racks, to detain the candle, without compressing its sides.

Claim.—The arrangement of the stationary perforated racks B B' B", and the perforated slide C, adapted to retain and centre the candle while permitting the descent of a full-sized

tip mould, substantially as set forth.

No. 36,799.—THOMAS ROWE, of New York, N. Y.—Improvement in Machines for Crushing Linseed, &c.—Patent dated October 28, 1862.—The substance to be crushed is introduced through a channel passing down through the centre of the vertical shaft in such a manner as to cause it to be fed between the crushing wheels. The substance is discharged through an aperture close above the slotted part of the shaft.

Claim.—Introducing the substance to be crushed through a channel e passing down through the centre of the vertical shaft C, and discharging through the aperture f between the crushing

wheels E, substantially as and for the purpose herein shown and described.

No. 36,800.—John Rynearson, of Farmington, Ill.—Improvement in Harvesters.—Patent dated October 28, 1862.—Upon the end of an arm which is pivoted to the upper part of a high frame is mounted a rake, which is pivoted in the end of the arm so as to admit of the teeth being turned into an effective position to remove the grain from the platform and falling back in leaving the grain. The rake is retracted by means of a spring which holds it against a stop pin in a position at right angles to the shaft. Pivoted upon and covering the rake is a yielding hood, which serves to press the grain while being raked from the platform and hold it in a compact body in front of the rake. An inclined plate formed with a flange is attached to the platform and serves as a fender to catch the grain as it is raked from the platform to prevent its being scattered and deposits it compactly upon the ground.

Claim.—First, in the described combination with the vertically curved platform G the rake

H, pivoted to and projecting horizontally forward from the rake arm I, by which it is carried

in a vertical orbit, all as herein shown and described.

Second, the guide L and spring &, operating in the described combination with the pivoted rake-head H, to present it in the proper position to gather the grain and afterward retract it

Third, the fender Q, employed in combination with the pivoted rake H, in the manner and

for the purpose specified.

Fourth, the yielding hood i, operating in combination with the revolving rake H I, substantially as and for the purpose explained.

Fifth, a platform constructed of vertically curved slats placed transversely of the machine at sufficient distance apart to admit the points of the rake teeth between them, when used in combination with the rake H I revolving in a vertical orbit, all as herein shown and described.

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No. 36,801.—Daniel Sager, of Albany, N. Y.—Improvement in Self-Acting Wages Brakes.—Patent dated October 28, 1862.—The brake-block, which is made of metal in the form of the frustum of a wedge, has an orifice M to receive the axis of the brake-bar. On the outer end or mouth of this orifice is a shallow groove for the purpose of passing it over the flange on the axle. On the lower part of this groove is a flange t, which passes through the space y on the axle and prevents the block from escaping from the axle.

Claim.—The brake-block X, formed as shown, and fitted to revolve freely upon an ax-

from the extremity of the brake-bar, for the purpose set forth.

Also, the mode of construction by which the brake-block is fitted and secured upon the axle, to wit, the combination of the orifice M, the groove a b and its flange t, with the axle Gflange f, and space y, substantially as described and for the purpose set forth in the above specification.

No. 36,802.—James and A. W. Sangster, of Buffalo, N. Y.—Improvement is Lamp Chimney Fastenings.—Patent dated October 28, 1862.—At the lower end of the deflector, and forming a part of the same, is a stationary lip turned over so as to catch the flange at the base of the chimney. F represents a lever which is provided with a movable lip forming a part of said lever, and projecting over the base of the deflector far enough to catch and hold the The deflector has also a thumb piece K attached to it and so arranged in connexion with a spring as to permit the chimney to be readily attached and detached.

Claim.—The stationary lip I, the movable lip on the lever F, the spring E, the thumb piece

K, and the aperture V, arranged in the manner and for the purpose herein set forth and de-

scribed.

No. 36,803.—DAVID SAUNDERS, of New York. N. Y.—Improvement in Machines for Cutting and Planing Metals.—Patent dated October 28, 1862.—This invention relates to the mode of adjusting and presenting the metallic article to the finishing tool, and also to the means for operating the various tools required, and directing the action of the same upon the metal. It does not admit of a brief description.

Claim.—First, the arrangement of the plates c and d, screws e e e' e' actuated by the shafe 4 5 and 6, and gearing connecting the same, in combination with the table g, applied as and

for the purposes specified.

Second, the shaft h and wheel h', in combination with the said plates c and d, adjusted \mathbf{s}

aforesaid and applied in the manner and for the purposes specified.

Third, the secondary bed l, in combination with the plate k, when said bed and plate at connected by the flanges, substantially in the manner specified, so as to provide for inclining the second bed l, as and for the purposes set forth.

Fourth, the arrangement of the gearing 13 14 15 and 16 for actuating the wheel p that gives

an end movement to the rod o and slide u, as set forth.

Fifth, the slide u, applied as aforesaid, in combination with the tool stock x and rotary lever or cutter w fitted and acting as and for the purposes specified.

No. 36,804.—O. SHERWOOD, jr., of Independence, Iowa.—Improvement in Grinding Mills.—Patent dated October 28, 1862.—This invention relates to a method of regulating millstones for the purpose of causing them to grind finer or coarser as may be desired, and it consists in having the bed-stone arranged in such a manner that it may be raised and lowered on the spindle, while the latter, as well as the upper stone or runner and the water-wheel,

have a rotary motion only.

Claim.—The adjustable frame D, having the bed-stone C placed upon it, and arranged as shown, in connexion with the spindle or shaft B and the upper stone or runner, so as we have the connexion of the bed-stone of the purposes having set forth. be operated through the medium of the bridge-tree G, for the purpose herein set forth.

No. 36,805.—J. D. SMEDLEY, of Chicago, Ill.—Improved Grate for Burning Petrolem and other Liquid Fuel.—Patent dated October 28, 1862.—The grate in this apparatus consists of a trough or concave-shaped vessel A, with the bottom made angular or curred to such a degree as to govern the quantity of surface of supply and combustion The substance constituting the fuel is fed through a pipe, the supply being regulated by a cock in the same. The grate is perforated over its whole area for the reception of pipes or air conductors which extend above the surface of the grate in the fire chamber for the purpose of aiding in the combustion of the fuel, the air being heated in its passage through the pipes. The specification describes various modifications of this device.

Claim.—First, the arrangement and combination of the trough or grate A and the airconducting pipes B B, substantially as described and for the purpose above set forth.

Second, the arrangement and combination of the trough or grate A, the air-conducting pipes

BB, &c., and the supply pipe D, with its gauge cock I appended, substantially as described and for the purpose above set forth.

Third, the arrangement and combination of the trough or grate A, the air-conducting page B B, &c., the supply pipe D, with its gauge cock I appended, and the damper E, substatially as described and for the purpose above set forth.

Fourth, the arrangement and combination of the trough or grate A, the air-conducting pipes

B B &c., the supply pipe D with its gauge cock I appended, the damper E, and the lower air chamber L, substantially as described and for the purpose above set forth.

Fifth, so constructing the trough or grate A, narrowing from its upper surface and edges . at an angle or curve to the bottom, as to present continually reducing areas of surface, substantially as described and for the purpose above set forth.

No. 36,806.—W. B. SMOOT, of Washington, D. C.—Improvement in Combined Time and Concussion Fuzes for Shells.—Patent dated October 28, 1862.—In the top of the fuze stock is screwed a piece of metal G, perforated by two holes and having a groove upon that part of it which projects from the fuse stock, the groove and holes to be filled with priming and quick To this piece of metal G a perforated disk L is fastened by a quick match, and having in it a groove filled with percussion powder. At the discharge the disk L is torn from its fastenings by the shock and caused to descend upon a tightly fitting ring below, with sufficient force to ignite the percussion powder in the groove, which then ignites the column of fuze composition at the bottom of the metallic stock.

Claim.—First, the improvement in the means of igniting time fuzes by combining the windage and concussion principles, substantially as and for the purposes set forth.

Second, the improvement in time fuzes of providing them with a communication with the shell closed by a sliding valve or plunger just above the point at which the fuse ignites, substantially as and for the purposes set forth.

No. 36,807.—F. B. STEVENS, of New York, N. Y.—Improvement in Surface Condensers.-Patent dated October 28, 1862.—At the port of entrance of the condenser or cooler is placed a cock or valve, and another cock at the port of exit, and by these two cocks all communication with the engine is shut off. Between the cock closing the port of entrance and the condenser or cooler is placed a pipe leading to the boiler, upon which pipe is a cock to open or close the communication. Between the cock closing the port of exit and the cooler or condenser is placed a pipe with a cock attached communicating with the atmosphere, so that when the cocks closing the ports of exit and entrance are closed, steam may be led to the condenser or cooler, and, after being condensed, drawn off.

Claim.—Closing the ports of exit and entrance of a condenser or cooler of a steam engine, and attaching pipes leading to the boiler and to the atmosphere, substantially as described.

No. 36,808.—F. B. STEVENS, of New York, N. Y.—Improvement in Shields for Surface Condensers.—Patent dated October 28, 1862.—This invention consists in the employment of a guard for enclosing a surface condenser or cooler, placed on the outside submerged surface of a vessel, for the purpose of preventing the condenser from being injured by contact with any object.

Claim.—A guard, enclosing a surface condenser or cooler, placed on the outside submerged surface of a vessel, substantially as described.

No. 36,809.—F. B. STEVENS, of New York, N. Y.—Improvement in Surface Condensers.-Patent dated October 28, 1862.—The surface condenser or cooler is formed by placing on the outside of the submerged surface of a steamer a system of tubes with headers, elbows, and return bends, arranged one behind the other, so as to cause little obstruction to the passage of the steamer through the water, and at the same time to allow sufficient water to flow around the tubes to condense the steam or cool the injection water.

Claim.—Forming a surface condenser or cooler by a system of headers, elbows, and horizontal tubes, placed on the submerged surface of a steamer, as herein set forth and described.

No. 36,810-F. B. STEVENS, of New York, N. Y .- Improvement in Surface Condensers .-Patent dated October 28, 1862.—In this invention the surface condenser or cooler is formed by placing on the outside of the submerged surface of a steamer one or more thin and flat passages with parallel sides, containing the steam to be condensed or water to be cooled, (a lamina of the water in which the steamer floats being interposed between the passages,) the object being to offer but little obstruction to the passage of the steamer through the water.

-First, forming a surface condenser or cooler on the outside submerged surface of a steamer by placing there one or more thin and flat passages, containing the steam to be condensed or water to be cooled, and having a lamina of the water in which the steamer floats interposed between them.

Second, the passages so arranged that each passage has its own separate port of entry and of exit.

No. 36,811.—James Thompson, of Vevay, Ind.—Improvement in Churus.—Patent dated October 28, 1862.—The journals of the cylindrical dasher are fitted in bearings which are formed each of a crotch fastened to the inner surface of the tub and framing upward. The

inner each of a clock hastened to the finer surface of the though and framing upward. The inner end of the shaft has a notch for the reception of a tongue projecting from the journal. The dasher is provided with a handle by which it is removed from the tub when necessary.

Claim.—The arrangement of tube A, having the flaring crotches B B', in combination with the rotary dash D, having in one plane a handle F and the tongue c, which tongue is adapted to couple with the notched shaft E, the whole being constructed and operating in the manner

set forth.



No. 36,812.—A. C. TURNING, of New Haven, Conn.—Improved Mode of Uniting The bers.—Patent dated October 28, 1862.—Instead of tuscums extending across the plate, as he been done in some cases, they are broken into rows of separate knobs; and instead of in across the timber for the ribs or tuscums to enter, separate holes are fitted for the know a that each must tear out a block of solid timber before there can be a separation.

The front of the knobs is hooked, so that from base to point the front inclines forward. the plane section square across the timber, or at right angles to the axis of the scared or pound piece, so that there will be a draw co-operating with the bolts.

Claim.—The construction and employment of such iron bearings or steps, when formed or furnished with teeth or knobs, standing apart and in rows, substantially as and for the perpose described.

Also, the hooked front of the rows or knobs for giving a draw, as above described. Also, the construction and employment of rolled iron strips with teeth or knobs, subsections.

tially as above.

No. 36,813.—RICHARD VOSE, of New York, N. Y.—Improvement in Car Springs.—Pales: dated October 23, 1862.—This spring is composed of one or more series or clusters of light volute springs, and a series of layers of India-rubber or other elastic yielding substance. arranged with a series of guiding and steadying metallic plates within a suitable protecting casing.

Claim.—The arrangement within a suitable casing of one or more series of volute springs I I, and a number of layers H H of some elastically-yielding substance, when the require number of metallic combining and steadying plates D E are arranged with the said volume springs and elastically-yielding layers, in the manner represented by the accompanying

drawings, and herein particularly set forth.

No. 36,814.—HENRY UNDERWOOD, of New York, N. Y .- Improved Belt Coupling .-Patent dated October 28, 1862.—This invention consists in having the rivets used in joining the ends of belting, connected together in pairs by a strap, the rivets and strap being swared in proper form from a single piece of copper, so as to prevent the ends of each lap of the best from being curled up in its passage over the wheel or pulley on which it runs.

Claim.—The connecting of rivets B permanently in pairs by means of straps C, sward

with the rivets from or out of a single piece of copper, to form an improved belt coupling

joint.

No. 36,815.-J. M. and W. C. Wallis, of Milton, Iowa.-Improvement in Hand Corn Planters.—Patent dated October 28, 1862.—This invention relates to that class of ex planters designed for manual operation, and consists in the arrangement of a plunger provided with a seed cell, and used in connexion with a cut-off or partition, spring places, and a stop, so that the seed may be easily measured, dropped, and planted at one operation.

The separate parts are disclaimed.

Claim.—The plunger D provided with the recesses g m, in combination with the partition E provided with the cut-off brush k, and the elastic plates F B, and fixed plate d, all arranged relatively with each other and within the box A, to operate as and for the purpose herein's

Also, the stop G attached to the plunger D, and provided with the spring o, when arrang relatively with the side c of the box A, and used in combination with the elastic place FR inclined partitions E, brush k, and fixed plate d, as and for the purpose set forth.

No. 36,816.—H. F. WIESECK, of New York, N. Y.—Improved Sugar Tablets for Contenting Medicines.—Patent dated October 28, 1862.—This invention consists in forming tables. of sugar crystals marked with numbers in figures of like material, whose capillary intersice are disengaged of the air contained therein and then filled up with alcoholtures, (remediant alcoholic form,) whereby the remedies remain diffused among the sugar crystals, end and the vehicle of them (the alcohol) has evaporated.

Claim.—First, the manufacture of tablets of sugar crystals, bearing numbers in figure ?

Second, the process which completes the manufacture, and endows the tablets of surcrystals with a healing power, by exhausting the air from their capillary intersices. 425 then impregnating them with alcoholtures (remedies in alcoholic form.)

No. 36,817.—JOHN WOODWARD, of Wilmot, N. H.—Improvement in Gates.—Patent dark October 28, 1862.—In this invention the gate is made twice or more than twice the length ! the space used as a passage way, and hung upon rollers, so that the portion of the gate last of the front rollers shall balance the portion forming the gate proper, thus preventing front end from tipping down.

Claim.—A gate twice or more than twice the length of the space used as a passage provided with the grooved rails and flanged rollers, constructed and operating in the manual

and for the purpose set forth.

No. 36,818.—J. G. YOUNG, Jr., of Auburn, Maine.—Improved Boot and Shoe Stretchers. Patent dated October 28, 1862.—This invention consists in the arrangement of three lifting rods for raising the instep, the toe, and for spreading them, respectively, in combination with three pairs of toggle arms acting on the several sections of the stretcher, and with a sliding nut operated by a hand screw in such a manner that the several parts of the stretcher can be raised simultaneously, or one independently of the other, as may be desired.

Combined with the central body of the stretcher is a rising and falling cap, in such a manner that by the action of the cap the toe and the instep can be raised either separately or

simultaneously, as may be desired.

Claim.—First, the arrangement of the lifting rods E E' H, in combination with the nut F, screw G, toggle arms b c b' c' l, cap C, and side pieces D, all constructed and operating substantially in the manner and for the purpose shown and described.

Second, the cap C, arms b c b' c', lifting rods E E', in combination with the central part B,

screw G, and nut F, loop i, and hook j, when arranged to operate in the manner and for the purposes specified.

No. 36,819.—S. C. CRANE, of Rochester, N. Y., assignor to D. R. BARTON, of the same place.—Improvement in Skates.—Patent dated October 28, 1862.—This invention is explained

by the claim and engraving.

Claim.—Connecting the foot piece B and the runner D of skates substantially in the manner specified, viz: by placing the clamping points s at one-fourth of the width of the runner below the foot piece, in combination with the collar C, when the latter is constructed as de scribed, and is placed entirely below the lower face of the foot piece, in the manner and for the purposes specified.

No. 36,820.—Smith Groom, of Troy, N. Y., assignor to Himself and Jacob Shavor, of the same place.—Improvement in Explosive Canister Shot.—Patent dated October 28, 1862.— Through the rear end of the projectile is placed a time fuze, around which, and in the rear end of the projectile, is placed powder, for the purpose of drawing forward the missives and conical wooden plug at the forward part of the projectile, or for exploding the projectile. Upon the powder is packed the wadding, over which are placed round shot or other missiles. The conical wooden plug is then driven into the end of the projectile over the shot.

Claim.—A canister shot or shell so constructed as to shoot forward the wood or metal plug A, war missiles O, and wadding E, in the manner substantially as herein described and

set forth.

No. 36,821.—A. L. POITEVIN, of Paris, France, assigner to LEOPOLD EIDLITZ, of New York, N. Y. - For application of Photography to Printing. - Patent dated October 28, 1862. -

The nature and object of this invention will be understood from the claim.

Claim.—First, the application in the process of photographic engraving hereinbefore described, of a plate of glass or other suitable surface coated with a solution of golatine which is allowed to set or solidify, and is then (either before or after being dried) immersed in or exposed to the action of a solution of bichromate of potash or other chromate whose base does not produce an insoluble compound with gelatine.

Second, the application in the process of photographic engraving, in manner hereinbefore described, of a plate or surface coated with a mixture of gelatine and bichromate of potash or other suitable chromate, or first coated with gelatine, and then exposed to the action of the bichromate of potash or other suitable chromate, in either case without the addition of nitrate

of silver.

Third, the application of a solution of proto-sulphate of iron to the surface of the photoplaster cast from the gelatine, as hereinbefore described.

Fourth, the mode hereinbefore described of metallizing the surface of the gelatine before

submitting it to the electrotype process.

No. 36,822.—Lewis Powe, of Pittsburg, Pa., assignor to McCurdy & Co., of the same place.—Improvement in the Manufacture of Sheet Copper.—Patent dated October 28, 1862.— The block of copper previously cast for the purpose is passed through the reducing rollers until it is brought down very nearly to the required thickness. The sheets thus formed are then allowed to cool before being subjected to the finishing process, and when cold they are immersed in a bath of dilute sulphuric acid, which removes the oxyd or scale from the surface, thus leaving it rough and uneven. The sheets are then placed in a furnace and again heated to a cherry red, after which they are passed, at a red heat, through highly polished finishing rolls, which communicate a very smooth exterior surface to the copper. The sheets are then sprinkled with a dilute solution of ammonia, reheated in an annealing oven, and afterwards plunged in cold water.

Claim.—The mode of treating the sheets of copper after they have been passed through

the reducing rollers, substantially as and for the purpose hereinbefore set forth.



No. 36,823.—John Slingerland, of Greenpoint, N. Y., assignor to Himself and J.H. Kelly, of New York, N. Y. — Improved Window Stop.—Patent dated October 28, 1862.—This invention consists in the combination of a movable incline piece having its face tooked. notched, and to which is hinged a swing catch or stop, and an elastic roller, so arranged is the roller shall bind between the inclined piece and the casing to hold the sash in an errus. position, and that the same may be released by adjusting the position of the inclined suriae.

Claim.—First, the combination and arrangement of the movable inclined piece D and to stop d', or its equivalent, with the elastic roller E, substantially as and for the purpose beau

described.

Second, in combination therewith, the employment of teeth, or of equivalent roughersurface on the face of D, for the purpose herein set forth.

No. 36,824.—CHARLES STOWELL, of Concord, Mass., assignor to Himself and W. M. Guller, of Northampton, Mass.—Improvement in Blasting by Electrical Currents.—Patent described by a Cotober 28, 1862.—This invention relates to the connexion of two electric circuit wires by a thin strip of platina in a manner to shield the platina from injury, and enable the shield receive a gunpowder or an explosive charge without any material disturbance of the platina Claim.—The improved arrangement or application of the shield, the circuit wires, and in

strip of platina, substantially as described.

No. 36,825.—WILLIAM MULLALLY, of St. Paul, Minn.—Improvement in Pumps.—Pauri dated October 28, 1862.—This pump consists of an upper and lower water space, provided with valve-guarded ingress ports, and separated by a diaphragm constructed in part of meta and in part of a flexible material, and operated by a hollow rod, which constitutes also be discharge pipe. The central part of the diaphragm is of metal, and is provided with a charge.

communicating with the water spaces before named through ports guarded by an internal value Claim.—The combination of the hollow operating and discharging rod K, hollow displays a large of the whole being arranged to the whole being a transfer to the who E F G I, internal valve J, chambers a b, and ports N O f g, the whole being arranged a

operate in manner substantially as and for the purposes set forth.

No. 36,826.—GIUSEPPE TAGLIABUE, of New York, N. Y.—Improved Apparatas for Tesing Coal Oil.—Patent dated October 28, 1862.—Attached to a hollow stand, and exucinal above the same, is a vessel for holding water or coal oil and water. Within this vessel. placed a cup for holding the coal oil to be tested, having a ring within the same into wina thermometer tube is inserted. Attached to the cover of the water vessel is a performance tube extending above and below the cover. Over an aperture in the cover is placed a deep with an opening in front and at the top, to allow of lighting the lamp and permit the case of the product of combustion. Openings in the cover of the water vessel are provided with smaller sliding or rotating covers for the admission or exclusion of air.

Claim.—First, the vessel B extending above the stand A, and having holes in it new 🕏

Second, the cup P with its projections on the outside.

Third, the ring Q in the cup P that holds the cover C and its appendages upright in 12) position other than over the vessel B.

Fourth, the perforated tube D that surrounds the thermometer and enters the ring \lor

allowing the cover C to stand in any position.

Fifth, the dome F with the opening L in front, for applying the lighted paper or wood

and the opening K on top.

Sixth, the rotating covers J J on the cover C; each and all as and for the purposes substantially as described.

No. 36,827.—Lambert Andrews, of Plantsville, Conn.—Improvement in Mole Traps. Patent dated November 4, 1862.—The object of this invention is to secure the anima with out injuring his skin in capturing him, and it consists in the use of a box provided with plate of a size to nearly cover the top of the box, having pins arranged on the under size at each end of the plate, the latter being held over the box by any proper device by which a animal will cause the cover to drop as it burrows in the dirt which is placed in the transcript.

Claim.—An improved mode of constructing and using mole traps, viz: The combination of the plate e, pins f, (arranged at each end of said plate e,) and the box e, (with proper spring device,) when placed in the ground as described, and the parts arranged and operations.

ing substantially in the manner and for the purpose described.

No. 36,829.—S. G. BARKER, of Carbondale, Pa.—Improvement in Scale Beams.—Parent dated November 4, 1862.—This invention consists in a method of making the suppose point or knife edge of a weighing beam adjustable, both vertically and longitudinally. the said beam, for the purpose of readily regulating the same, and also to enable the reight to change the position of the said suspension points in relation to the fulcrum, so that he cas

at any time readily adapt the beam or scale to either gross or net weight or foreign standard.

Claim.—Making the suspension point c adjustable upon the beam A, by means of the slide B, in combination with the threaded stem A, jam nuts i i, boss k, and thumb screw at the same being arranged to operate substantially in the manner described, for the purpose specified. specified.

No. 36,829-R. BOEKLEN, of Brooklyn, N. Y., and G. W. SCHRAMM, of New York, N. Y.—Improvement in Hammers.—Patent dated November 4, 1862.—The hammer head is constructed with a face at each end, the two faces being of different character for different kinds of work. The claw is made on one side of the head, on a line with the handle.

Claim.-The construction of a hammer head, with a face at each end, and a claw on one

side, substantially as and for the purpose herein specified.

No. 36,830.—J. L. BOOTH, of Rochester, N. Y.—Improvement in Grain Separators-Patent dated November 4, 1862.—This apparatus is composed of a hopper supported upon legs, which latter are provided at their lower ends with metallic points in order to keep them firm upon the floor. Under the hopper is arranged a series of screens. The legs are of such size and material as to allow the frame and screens to be readily vibrated by the hand in

separating the grain.

Claim.—The above-described apparatus, composed of the frame A, provided with hopper E, screens C, the standards B B B, and spurs l l l, so arranged that it may be secured to the floor at any place, in the manner shown, and operating by vibrations, substantially as herein

set forth.

No. 36,831.—WILLIAM BOURN, of Rochester, N. Y .- Improved Boot-Jack.—Patent dated November 4, 1862.—This device is formed with two similar side pieces, between which, and extending from front to rear, is fitted a double-acting wedge, by means of which the jaw may be opened and closed by the free foot of the person using the same, the parts being connected

together by a transverse bolt.

Claim.—The combination of the side pieces A.A., double-acting wedge B, and bolt C, arranged in such a manner that the wedge forms a bearing the whole length between the said pieces, and operates the jaws automatically by the weight of the operator, substantially as berein set forth.

No. 36,832.—ADOLPH BROWN and FELIX BROWN, of New York, N. Y.—Improvement in Friction Couplings.—Patent dated November 4, 1862.—This invention consists in the arrangement with a wheel, pulley, or clutch placed loosely upon a shaft, of a friction-band attached to an arm securely fastened on the shaft, one end of the said band being firmly attached to the said arm while the other end is attached to a lever or crank turning in a bearing at the end of the arm. This crank or lever is connected through a universal joint with an arm situated loosely on the shaft, and capable of sliding on the same. The action of this loose arm on the crank in the fast arm will operate the friction band so as to loosen or tighten the same around the wheel, pulley, or clutch as may be desired, and consequently coupling or disengaging the same from the shaft, while the latter is in motion.

Claim.—The herein-described friction coupling, constructed and operating in the manner

and for the purpose substantially as specified and set forth.

No. 36,833.—A. B. Corey, of Sprague, Conn.—Improvement in Machinery in Dressing and Sizing Warps.—Patent dated November 4, 1862.—This invention consists in the employment of a third roller termed an "eyener" in addition to the "top" and size or plunge roller, and which is arranged upon and above the top roller, its axis being disposed a little in rear of the vertical plane of the axis of the plunge roller, the object being to remove from the warp-thread the surplus sizing adhering to the same.

Claim.—The arrangement and combination of the evener with other warp-dressing machinery, substantially as described.

No. 36,834.—JOSEPH EVANS, of Newark, N. J.—Improvement in Fruit Gatherers.—Patcant dated November 4, 1862.—To the upper end of a pole or handle are secured two curved jaws jointed together so as to enable them to open and clasp the fruit. To the upper ends of the jaws are secured skeleton concaves formed of wires for holding the fruit, and are actuated by means of a rod secured to their lower ends and extending down the handle. To the wires is attached a tubular conveyer to conduct the fruit to a receptacle below, and so connected as to be easily attached or detached. To the top of the jaws are attached knives by means of set screws, which knives can be easily attached or detached and serve for pruning the

Claim.—Attaching and detaching the conveyer K to and from the jaw levers, by means of the curved spring-wires or rods I I and lateral eyes i i, the whole arranged, combined, and

operating substantially as and for the purpose herein set forth.

Also, the particular arrangement of the whole instrument, consisting essentially of the cross levers B B, connecting bars D D, sliding rod E, guide collar G, pole A, with the cylindrical end H, and detachable conveyer K, substantially as herein described.

Also, the vertical separating wires d d of the jaws for properly guiding the twigs to the knives in pruning, in combination with the knives L L, at the tops of the jaws, arranged and converting applications of the property of the jaws, arranged to the property of the jaws, arranged to the property of the jaws, arranged to the property of the jaws, arranged to the jaws are property of the jaws, arranged to the jaws are property of the jaws, arranged to the jaws are property of the jaws, arranged to the jaws are property of the jaws are property of the jaws, arranged to the jaws are property of the jaws are p and operating substantially as herein described.



-FRANCIS GARDNER, of Roxbury, Mass. - Improved Canteen. - Petent del November 4, 1862.—The canteen is formed with several compartments for containing was and rations, with a space for a pipe, a drinking cup, and water filter.

Claim.—The within-described canteen, with its various compartments, removable drift.

ing tube and filter, constructed and arranged as described.

No. 36,836.—R. J. GATLING, of Indianapolis, Ind.—Improvement in Revolving Burn Guns.—Patent dated November 4, 1862.—This invention consists of a peculiarly construcrevolving lock cylinder or breech piece, in combination with a grooved carrier and bar-all rigidly secured upon the same shaft and revolving together when the gun is in opening The operation of cocking and firing the gun is performed without the use of a tree by means of an inclined plane in the rear of a ring which surrounds the forward end of the act cylinder, the inner tubes which contain the locks serving to press the cartridge chamber impleadants the rear end of the barrels while being discharged, and an outer casing and dis protecting the locks from injury.

Claim.—First, the combination of the lock cylinder or breech D with the growed carrier circular plate F, and barrels E E, &c. The lock cylinder or breech carrier and circular plate being firmly fastened upon the main shaft N, and the locks, grooves in the care and barrels, being arranged on a line parallel with the axis of revolution, the whole revolution

together when the gun is in operation, substantially as described.

Second, the use of as many locks as there are barrels, said locks revolving simultaneous. with the breech and barrels, and being arranged and operated substantially as set forth

Third, the stationary ring P provided with inclined planes on its rear edge, in combination with lock cylinder D and locks, when constructed and operated for the purposes substantally as set forth.

Fourth, the tubes a a, &c., furnished with the flanged breech pins c c, &c., and springs. &c., and which contain the lock hammers b b, &c., and mainsprings d d, &c., in combinate with the revolving breech D, disk I, and swell O, when constructed, arranged, and open for the purposes substantially as set forth.

Fifth, the disk I, in combination with the external breech piece or casing A, which longs shield or covering for the lock cylinder, and which protects the locks and cog-whell in

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No. 36,837.—H. C. HUNT and G. W. DEVIN, of Ottumwa, Iowa.—Improvement of Pumps.—Patent dated November 4, 1862.—In the lower part of a well or reservoir is a wellcylindrical cast-iron case having two compartments divided by a partition in the case provided each with an induction opening, and communicating with an eduction provided upper part of the casing provided with a valve. In each compartment of the said compartment of the sai arms at each side connected by chains to a lever above, by means of which the junt operated.

Claim.—The stationary semi-cylindrical case B provided with the slide valve D. or partition a and induction openings c c, with the eduction pipe C placed between the combination with the oscillating plate F, having the pistons E E' attached and placed region ively in the compartments b b', and provided with the arms g g, which are connected at suitable lever G, all arranged to operate as and for the purpose herein set forth.

No. 36,838.—L. F. Hall, of Fonda N. Y.—Improvement in Sharel Pins.—Patent in November 4, 1862.—This invention is explained by the claim and engraving.

Prongs a a, provided with hooks b b at one end, and a hook c at the opposite end, shown and described.

No. 36,839.—James Gordon, of Caledonia, N. Y.—Improved Printing Press.—Part deted November 4, 1862.—This invention consists mainly in the employment of a grant having a form fitted in its periphery and so operated as to have a reciprocating and parts ! rotating motion, and working in connexion with a reciprocating bed which receives the state and upon which the sheets receive the impression from the form cylinder, the same used in connexion with a reciprocating form bed and pressure rollers, all so arranged with enable both sides of a sheet to be printed in passing once through the press, and the press, be fed at both ends to render the printing operation continuous, the printed sheets be at the discharged from both ends of the machine.

Claim.—First, a partially rotating cylinder B provided with a type form F, and experience of the connexion with a reciprocating bed G', which holds or retains the sheets while and receiving the impression from the form F on cylinder B, in combination with the receiving form bed S and pressure rollers Q Q, all arranged as shown and in connexion.

conveying tapes, to operate as and for the purpose herein set forth.

Second, the manner of adjusting or mising and lowering the rollers Q Q, as shows described, to wit, by means of the pitmen e" attached to the bearings R, and to crank. shafts a" a", which are connected by a bar d" secured to the ends of arms which project from said shafts, and one of the latter having a forked arm g* attached to it, in which an eccentric for on shaft P works.

No. 36,840.—G. P. GORDON, of Brooklyn, N. Y.—Improvement in Printing Pressen-Patent dated November 4, 1862.—This invention does not admit of a brief description.

Claim.—A platen which shall be stationary for the reception of the sheet and for the reception of the impression a, when such platen shall be vibrated for the purpose set forth; b, when such platen shall be placed at an angle from the horizontal or vertical position, in order that the printed sheet may be readily delivered by the rolling tympan sheet and sheet-taking nippers, as shown; c, when such platen shall be combined with the sheet-taking nippers, held and carried substantially as described; d, when such platen shall be combined with the rocking nipper arms and the rolling tympan operating substantially as described, for the purposes fully described.

Second, the sheet-taking nippers a, when held and carried by the rocking arms in combination with a stationary feed-table as shown for the purpose set forth; b, when such sheettaking nippers shall be swivelled and hung upon a rod, so that they must move in any direction in which the rod may be turned, and yet, at the same time allow the jaws of such nippers to have an independent movement to and from each other, to take and deliver a sheet; c, when said sheet-taking nippers shall be operated as shown, for the purpose specified; d, when said sheet-taking nippers holding the sheet and resting upon the platen shall vibrate

with the platen for the purpose shown.

Third, the sheet-guide or shield a, when such sheet-guide or shield shall be used in combination with the rocking nipper arms and the rolling tympan, operating substantially as shown; b, when such sheet-guide or shield shall be used in combination with the pile table,

for the purpose fully shown.

Fourth, for the purpose of giving a more thorough distribution and for the supplying ink to the inking rollers, a revolving tabular distribution surface upon one side of the form, and a revolving cylindrical distribution surface upon the other side of the form, as herein fully shown.

Fifth, detaching and thereby suspending the operation of the nippers, nipper arms and

rolling tympan, for the purpose specified.

Sixth, the sheet-catches or holders K K; a, when such sheet catches or holders shall be combined with the pile table for the purpose described; b, when such sheet-catches or holders shall be combined with the sheet-guide or shield, for the purpose shown.

Seventh, projecting the stationary feed table over and boyond the face line of the platen,

for the purpose specified.

Eighfh, the sheet gages constructed substantially as described, in combination with a stationary feed table, for the purpose set forth.

No. 36,841.-J. H. IRWIN, of Chicago, Ill.-Improvement in Lanterns.-Patent dated November 4, 1862.—At the upper part of the lamp is a jacket provided with a cap having a circular opening at its centre, through which the wick tubes pass. This jacket entends down about half the height of the lamp and is provided with a flanch at its lower end which projects outward and downward around the lamp. At the lower end of the lamp is also a flanch which projects outward and upward all around the lamp. The space between the flanches has a series of vertical plates placed in it radially; the object being to prevent the light from being extinguished by the movements of the lantern.

Claim.—The combination of the two flanges b c, and plates d, with the lamp E, jacket G

and lantern Λ , in the manner herein shown and described.

Also, having the cap H arranged below the upper extremities of the wick tubes, as herein shown and described.

No. 36,842.—GAMALIEL JACKSON, of Cincinnati, Ohio.—Improved Watchmaker's Lather Patent dated November 4, 1862.—This invention relates to a method of fastening the piece to be turned in the lathe, and it consists in arranging the grasping apparatus to slide on the spindle by means of rods parallel to it, and to which the grasping part is permanently fixed, in such a manner that the piece may be grasped at any part of it. When thus secured one of its ends will project through the grasping apparatus, while the other rests in the stationary head centre. The chuck, containing the article to be turned, is arranged to be moved on the end of the spindle by means of a ball-and-socket joint, in such a manner that the centre of the socket will be the head centre of the lathe in which one end of the piece to be turned will rest, while the other is being adjusted on a line with the spindle.

Claim.—First, the arrangement of grasping apparatus on parallel adjustable rods l l, in such a manner that the piece to be turned may be grasped at any part, one end of it resting

in a stationary centre.

Second, the application of ball-and-socket motion to the head of a lathe, in such a manner that one end of a piece of work may be adjusted, while the other end rosts in a stationary centre, constructed and operating as herein set forth.

No. 36,843.—Samuel Johnston, of Buffalo, N. Y.—Improvement in Harvesters.—Palent dated November 4, 1862.—This invention relates to a combination and arrangement of parts whereby the inner shoe acts as a brace to the finger-beam, and the meshing of the pitma gearing is maintained while the outer end of the finger-beam has freedom of motion up and down, and when necessary, both the inner and outer ends of the finger-beam may be adjusted together either higher or lower. The invention relates also to the construction of the automatic hand-rake, consisting of an undulating groove or cam track with a yielding gateguiding standard, cam, and angular rake-arm.

Claim.—First, the arrangement and combination in a reaper and mower of the hanger I, curved guide O, hinge joints M and g, and shield P' of shoe P, or their equivalents, constructed and operating substantially in the manner and for the purpose described.

Second, constructing and arranging the bearing * m, substantially in the manner described, in combination with the pitman shaft J, shield P', and hinge joints M and G, for the purpose set forth.

Third, the hanger I I' I 2 I 3 & &', constructed as described.

Fourth, arranging the automatic rake attachment upon the inner end of the finger-beam,

by means and in the manner substantially as described and for the purpose set forth.

Fifth, the combination of the cam track, partly enclosed by rails t t, and a yielding gate t, with the guiding eye R2, lever Z, crane-like arm U V, pivoted rake-head X, and stale Y, substantially as and for the purposes described.

Sixth, the construction of the jointed crane-like arm U V, substantially as and for the pur-

pose set forth.

Seventh, the construction of the part V of the arm with journals, and with points of attachment for the lever Z and part U of the arm, substantially in the manner described.

Eighth, the combination of the yielding gate t2 and the rails t t' of the grooved or can track W, substantially as and for the purpose described.

Ninth, the bearing W, with a groove and rails t t' t2, constructed and operating as described, in combination with the extension S(t) of the control

in combination with the extension S S' of the part U of the crane-like arm, for the purpose set forth.

Tenth, the construction and arrangement of the pivoted spring-gate at the end of the boxzontal groove or cam track, substantially as and for the purpose set forth.

Eleventh, the combination, in an automatic hand-rake attachment, of the eye R2 and the

stale Y, for the purpose set forth.

Twelith, the construction and arrangement of the open-slotted adjustable pole-plate N 🙇 😆 described and for the purpose set forth.

No. 36,844.-T. J. McGowan, of Cincinnati, Ohio.-Improvement in Pumps.-Patent dated November 4, 1862.—The nature and object of this invention are explained by the claim. Claim.—Providing the pump bucket D, or any suitable part connected therewith, and the lower valve guard I, or any part attached to it, with screws, or their equivalents, arranged in such a manner that all the working parts of the pump may, by a simple manipulation be connected together, and simultaneously withdrawn from the pump cylinder A, and also adjusted therein, substantially as and for the purpose herein specified.

No. 36,845 .- ISAAC A. KETCHAM, of Brooklyn, N. Y .- Improved Mode of Operating 8ubmarine or Floating Batteries.—Patent dated November 4, 1862.—This invention consists in the employment of an endless cable, operated by a windlass or suitable device within a fortification or vessel, and passing through an anchored pulley at the epposite side of the channel. The said cable is designed to carry one or more explosive shells, which are attached to it by their lower ends while their upper ends are provided with suitable triggers attached by wires or chains to buoys which float upon or just below the surface of the water, so that the said shells may be moved and brought under an enemy's ship as it passes by.

Claim.—The combination of a battery or connected series of explosive shells D and endless

cable B, for confining and adjusting them in position, and a buoyant attachment F G for effecting their explosion by the action of a passing vessel with the buoyant indicator H, the whole being constructed and arranged to operate in the manner and for the purposes specified

No. 36,846 .- T. J. KINDLEBERGER, of Springfield, Ohio. - Improvement in Water Wheels-Patent dated November 4, 1862.—This invention consists in the employment of a plurality of wheels placed one over the other on the same shaft and provided with buckets, the outer portions of which have a radial position in the wheels, and the other portions an oblique or tangential and inclined position. The wheels are placed within a cylinder provided with chutes, and a cylindrical gate is placed between the chutes and the wheels, all arranged in such a manner that a large percentage of the power of the water is obtained when the wheel is working at its maximum, and a less power than the maximum obtained when required. without expending any more than a corresponding decrease of water.

Claim.—First, the wheel B, placed within the cylinder A, and composed of a plurality of pearts a a' a", three, more or less, provided with buckets D, formed of an inner tangential and inclined portion c, and a horizontal and radial outer portion d, in connexion with the chates F and cylindrical gate G, all arranged substantially as and for the purpose specified

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Second, the arms g, connected to the gate by rods f, said arms resting or bearing on the curved inclined ways j, on the top of the cylinder A, and the arms g, turned upon the inclined ways j, by means of the arms m, attached to the shaft n and link l, substantially as

No. 36,847.—S. J. MADDOCK, of Cincinnati, Ohio.—Improvement in Braiding Guides for Sewing Machines.—Patent dated November 4, 1862.—This invention consists of a guide formed of a double gauge and plate attached to and forming part of an arm which is secured to the stem of an ordinary presser, for the purpose of sewing on braid, or other fabric of similar character, the same passing through the gauge and made adjustable for different widths of braid.

Claim.—A braid guide for sewing machines, composed of an adjustable double gauge F, and a plate A s, having an attached arm B, all constructed and operating together as herein

shown and described, for the purpose set forth.

No. 36,848.—Samuel Johnston, of Buffalo, N. Y.—Improvement in Corn Harvesters.-Patent dated November 4, 1862.—The nature of this invention consists in the construction and operation of one section of the platform or corn receiver, and its combination with two dividers and the cutting apparatus, and also in an adaptation of the finger beam and a crank arm on the same, whereby the corn harvesting attachment is combined with and supported by the inner shoe of the reaper and mower, and its movable section of platform or receiver is operated from the driver's seat of the draught frame.

Claim.—First, the combination of the two gatherers, constructed as described, with the cutting apparatus and the receiver, with inclined sides, substantially as and for the purpose

set forth.

Second, the construction and arrangement of the two inclined oblique wings of a corn

harvester, as herein described.

Third, imparting a swinging outward and upward movement to the movable section of the receiver as it opens to discharge the corn, and a swinging upward and inward motion thereto as it closes, substantially as set forth.

Fourth, the special means set forth for producing said motions of the movable section of

the receiver.

Fifth, in the organization of a corn harvester, substantially as described, to be operated by the gearing of a grain harvester machine, extending the finger beam and knife rod, without guard fingers or knives on the extended portion, beyond the inner wings of the corn harvester, so that it may be practically attached to the supporting and driving mechanism of the grain harvester frame, and when thus attached its finger beam and knife rod shall be sustained by the inner shoe of the grain harvester, and its mechanism for operating the movable section of the corn receiver shall be in position to be operated by the driver, substantially as herein described.

No. 36,849.—J. C. McKez, of Urbana, Ill.—Improved Evaporator for Saccharine Liquids.—Patent dated November 4, 1862.—This invention consists in the arrangement of a helical inclined channel receiving the liquid to be evaporated in its middle or highest part, and discharging it at its lowest part in such a manner that the liquid, in passing from the highest to the lowest point of the helical channel, is spread in a thin sheet over a large heated surface. The heater is provided with a regulating faucet so connected with the helical evaporator that the discharge of the liquid can be regulated according to the temperature of the

helical channel and the desired degree of evaporation.

Claim.—First, the evaporator F, constructed with a helical inclined channel in combination with the furnace A, constructed and operating substantially in the manuer and for the

purpose herein set forth.

Second, the arrangement and combination of the heater E, smoke pipe D, regulating faucet d', helical inclined channel d, and furnace A, all constructed and operating substantially as and for the purpose described.

No. 36,850.—S. M. Moore, of Beloit, Wis.—Improvement in Moving Machines.—Patent dated November 4, 1832.—This invention relates to that class of mowing machines in which the finger beam is pivoted or hinged to the rear end of the main frame and behind the driving wheel, and it consists in a certain combination and arrangement of parts for adapting the muchine to the varying circumstances under which it is required to operate.

Claim.—The combination of the main frame driving wheel, driver's seat, finger beam, drag shoes, and lifting lever, when arranged for joint operation, substantially as described

and for the purposes set forth.

Also, the combination of the finger beam with the shoes or runners E F and G, having great rear projection, when arranged and operating as and for the purpose described.

No. 36,851 .- JAMES NEWMAN, of London, England .- Improved Evaporator for Saccharine Juices.—Patent dated November 4, 1862.—This apparatus is composed of an inner and outer vessel, the inner vessel containing the juice, and having applied within it a series of rotating Digitized by GO

disks which bake up the juice and expose it to the atmosphere, steam being admitted between the inner and outer vessels. A perforated coil of steam pipe for the admission of steam at the said space is so applied, in combination with a cold water injection pipe and over. for the circulation of water through the said space, that the steam is delivered into the sale space without passing through the water, but the steam pipe is so far immersed in the water. as to enable the steam to be more or less tempered by regulating the circulation of the

Claim.—So applying a perforated steam pipe E, or its equivalent, within the space between the vessels A B, and in combination with the cold water injection H and overflow I the the steam is delivered into the said space without entering the water, and is tempered by its

circulation of water, substantially as and for the purpose herein specified.

No. 36,852 .- J. C. NYE, of Cincinnati, Ohio. - Improvement in Breech-loading Fire-arms -Patent dated November 4, 1862.—This invention consists in the employment of a key of particular dated November 4, 1862.—This invention consists in the employment of a key of particular dated November 4, 1862.—This invention consists in the employment of a key of particular dated November 4, 1862.—This invention consists in the employment of a key of particular dated November 4, 1862.—This invention consists in the employment of a key of particular dated November 4, 1862.—This invention consists in the employment of a key of particular dated November 4, 1862.—This invention consists in the employment of a key of particular dated November 4, 1862.—This invention consists in the employment of a key of particular dated November 4, 1862.—This invention consists a large dated November 4, 1862.—This invention consists are particular dated not be a large dated and the particular dated not be a large dated and the large dated not be a large dated and the large dated attached to a hinge joint on the head of the breech pin held in position by means of a spinit and which serves to hold the breech pin in position when closed.

Claim.—The key or gate C, and the mode of applying the same to fire-arms, substantia.

as described.

No. 36,853.—T. G. OTTERSON, of Millville, N. J.—Improved Fruit Jar.—Patent dark November 4, 1862.—Just below the top of the jar is a collar or flange extending around it jar, which flange forms a rabbet to receive a packing of India-rubber, upon which the cirof the cover rests when the jar is closed. The lower edge of the cover is beveiled to allow to press into or upon the packing.

Claim.—In combination with a glass jar, having a rabbet around the top or mouth on 🔀 outside, a glass cover shutting over on to the rabbet or packing on the rabbet, substanta.

as described.

No. 36,854.—JOSEPH RECKENDORFER, of New York, N. Y.—Improvement in Pencils— Patent dated November 4, 1862.—The pencil is made larger at one end than at the var and of tapering form, the larger end being provided with India-rubber, as an erase, we

short distance, the remaining portion being filled with lead.

Claim.—The wooden case A, of tapering form, in combination with the rubber clarger section, and the black lead B, of smaller section, arranged therein, substantial.

and for the purpose herein described.

No. 36,855 .- W. M. PHELPS, of Marshall, Mich. - Improvement in Connecting Shet-taifor Eures Troughs.—Patent dated November 4, 1862.—Ante-dated June 13, 1862.—The vention consists in a method of connecting the metal sheets together before bending the

form a gutter, by locking, lapping, and soldering their edges.

Claim.—The mode of uniting the separate sheets of metal, of which caves troughs are posed, by the use of the locked seam E, in combination with the lapped scam e of a stificiant

bead B, substantially as and for the purpose specified.

No. 36,856.—Sarah E. Payson, of Peterborough, N. H.—Improvement in Vapor Bath.—Patent dated November 4, 1862.—This apparatus is composed of a boiler and lamp ences within a suitable casing to which the boiler is fitted, in such a manner as to provide for escape of the vapor through a suitable perforated or reticulated medium, the whole 🤃 placed upon a suitable base in which are arranged suitable supports for the upper bedecase so that when the apparatus is placed in a bed, between the mattress and the upper clother covering, the said covering may be kept out of contact with the patient and also prevent from interfering with the evaporation or the diminution of the vapora, the casing being nished with suitable means of confining the said covering to its sides to make it form, in contact with suitable means of confining the said covering to its sides to make it form, in contact with suitable means of confining the said covering to its sides to make it form, in contact with the patient and also prevents. bination with the mattress, a vapor bath of convenient form and size.

Claim.—First, the combination of a boiler, a lamp, a surrounding and supporting casas a suitable base, and standards D D, for the support of the upper bed-clothes or core

substantially as and for the purpose herein specified.

Second, the combination with the boiler, lamp, casing and standards, of bars H H, straitto the sides of the casing, substantially as and for the purpose herein set forth.

No. 36,857.—GEORGE RICHARDSON, of Springfield, Mass.—Improvement in Balance N Valves.—Patent dated November 4, 1862.—This invention consists in the employment connexion with the sliding valve and cover of the chest, of two wedge-shaped pier-lower one of which is provided with recesses corresponding in size and position was ports in the valve seat, and constructed and arranged in such a manner as to form a provided with recesses corresponding in size and position was tion for the back of the valve from the pressure of the steam, and also to admit of a ! : adjustment as the valve wears away.

Claim.—First, the combination of the valve II, wedges F and G, and steam-chest E, when severally constructed and operating substantially in the manner and for the

pose herein set forth.

Second, the combination of the sliding valve H, having the ports l m situated as herein lescribed, with the recesses i k, in an adjustable piece G, when operating substantially in he manner and for the purpose herein set forth.

No. 36,858.—W. F. RIPPON, of Providence, R. I.—Improvement in Explosive Projectiles or Ordnance.—Patent dated November 4, 1862.—This projectile is formed of a hollow casing awing a number of circular openings in the interior. Within this casing is a cast-iron yindrical tube B, having mortars east with it and radiating from the same, the mortars eing provided with vents leading to the interior of the tube. Through this cylindrical tube asses a tube F, having on its exterior a spiral groove for the reception of the fuze, which is round around the tube, and so arranged as to cover the vents of the mortars and a vent ommunicating with a chamber G, which latter is formed within the shell around the tube 3 and the mortars, and is filled with powder. The front portion of the interior of the shell is artitioned off from the powder chamber G by means of a thin plate fitting closely around he tube B, forming a space to be filled with scrap-iron for the purpose of ballasting the prosectile.

Claim.—The combination of the mortar tube B, central tube F, plate D, and plug E, with the shell A, and the openings therein a a, in the manner and for the purpose herein hown and described.

Having the tube F, provided with a spiral fuze grooved d, so arranged as to conduct the re from chamber s, between the tubes F B, successively across the vents b b b b of the morars to the powder chamber G and the interior tube F, as and for the purpose herein shown and described.

The combination of the partition I with the mortar tube B and the shell A, thereby forming ballast chamber H, all as herein shown and described.

No. 35,859.—CYRUS ROBERTS, of Three Rivers, Mich.—Improvement in Cultivators.—'atent dated November 4, 1862.—In this machine the teeth are mounted in a frame pivoted a front, so that its rear end can be raised and lowered, which frame is also capable of sliding reely in its bearings in a lateral direction. The frames which carry the respective rows of each are combined in such a manner that by means of a lever they can both be adjusted imultaneously so as to work at either the same or at different depths. The stay chains, which sustain the lower part of the feet, are attached to the framework of the machine at a oint in front of the hinges of the lifting frames, and in such relation thereto that the teeth are imparted to them in rising a slight backward movement in order to permit them to ear themselves readily from dirt, mud, &c. The tongue, driver's seat, and lifting frames a arranged in such relation to the axle that when the driver is in his seat the machine sall be balanced, or nearly so, upon its wheels.

Claim.—First, mounting the front feet in a frame having both a lateral and a vertical ovenment when arranged and operating substantially in the manner and for the purpose tensible.

escribed.

Second, the combination of the front and rear lifting frames, to which the respective rows i teeth are attached, with a hand lever, substantially in the manner described for the purses set forth.

Third, the combination of the stay chains with the frame and feet, when arranged in lation to the joints of the lifting frames, in the manner and for the purpose specified.

Fourth, the combination of the tongue, driver's seat, and front and rear lifting frames, hen arranged in relation to the wheels, substantially as herein described, for the purpose of plancing the machine, as set forth.

No. 36,860.—J. D. Robinson, of Waterbury, Vt.—Improved Clothes-wringing Machine.—atent dated November 4, 1862.—Behind the upper roller and in contact with it is an iron d, which passes through the levers A and serves as a fulcrum to the same. On a circular ojection in the frame rests an India-rubber cylinder, acting as spring to the lever. A rew passes through the long arm of the lever which serves to regulate the pressure of the per upon the lower roller.

Claim.—The combination and arrangement of the lever A, the spring B, the screw C, the d E, the leg N, the semicircular projection k, and the rubber spring H, constructed sub-

antially as and for the purpose specified.

No. 36,861.—H. S. ROGERS, of Willow Vale, N. Y.—Improvement in Revolving Fircms.—Patent dated November 4, 1862.—This invention consists in effecting a connexion tween the trigger and lever by means of a toggle joint for the purpose of obtaining a netantly increasing power upon the lever, and so as to counterbalance the increasing nsion of the spring without requiring a corresponding increase in the force applied to the gger.

Claim.—Combining the trigger with the lever A by means of a toggle E' F', applied and ranged to operate substantially as herein specified.

No. 36,862.—WILLIAM SEWELL, of New York, N. Y.—Improvement in Steam Pumps.—atent dated November 4, 1862.—The crank shaft is arranged transversely to the piston rod

in bearings on the bed plate below and very near to the piston rod. The crank is arranged to work between the piston rod and on one side of the bed plate. The crass-head is secured to work between the piston rod and on one side of the bed plate. to the piston rod, as shown at G, and is connected with the crank wrist by a connecting nd, so as to transmit rotary motion to the crank, and through it to the shaft and fly-wheel.

Claim.—The combined arrangement of the crank shaft, crank or cranks, cross-head and

connecting rod or rods, substantially as and for the purpose herein specified.

No. 36,863.—WILLIAM SEWELL, of New York, N. Y.—Improvement in Values for Seca Pumps.—Patent dated November 4, 1862.—In the side of the discharge chamber is us oblong opening of a size to allow the insertion and withdrawal of the valve, and along tir exterior of the lower edge of this opening is a flange c. The margin of the flexible parts: of the valve is fitted into a recess in the bottom of a block of metal corresponding in length and width with the flange c, the height or depth being greater than the oblong epaing in the discharge chamber. The said block is furnished with tenons or dowels, which pass through and project below the flexible portion of the valve, so as to enter mortiscs provided in the flange c for their reception.

Claim. -First, s constructing and applying the valve that its flexible portion or hinge is held at a point or in a line outside of the chamber which contains the valve, substantially a

and for the purpose herein specified.

Second, the combination of the block D, provided with dowels d d, or their equivalent. the flange c, and the cap E, the whole applied in combination with the valve C and use opening b in the valve chamber, substantially as and for the purpose herein set forth.

No. 36,864.—A. W. SMITH, of Manchester, N. H.—Improvement in Fliers for Spinning.— Patent dated November 4, 1862.—This invention consists in forming the parts compare the pressers, namely, the spring, the arm, and the delivery, of one and the same proximation. steel wire, for the purpose of giving the presser arm sufficient elasticity to adapt itself to the head of the bobbin.

Claim.—First, the construction of a presser for head bobbins, by combining the management of the construction of a presser for head bobbins, by combining the management of the construction of the construction of a presser for head bobbins, by combining the management of the construction of the constructio spring a, the arm b, and the hook c, of one and the same piece of steel wire, formed and z

ranged substantially as described, for the purposes herein set forth.

Second, also the combination of the arm, spring, and hook, whether in one or more page. when so arranged to give the hook or delivering finger the vertical play necessary to lay in yarn close to the nipper and lower heads of the bobbin, as set forth.

No. 36,865.—Joel Smith, jr., of Alleghany City, Pa.—Improvement in Hinges for Sutters.—Patent dated November 4, 1862.—The lever is provided with a weight at the lower end to keep its upper part in a perpendicular position, so that in opening the shutter is cam, which is placed on the female part of the hinge, will move the upper end of the keep its upper sidewise and hold it in position.

Claim.—The arrangement of the cam g and eccentric lever f, when used in combinate with the hinge, arranged, constructed, and operated substantially as herein described and is

the purpose set forth.

No. 36,866.—J. J. STARR, of Cincinnati, Ohio.—Improved les Cleg.—Patent duci November 4, 1862.—This invention is explained by the claim and engraving. Claim.—As an improved article of manufacture, the ice clog composed of the rougher

plate A, having oblique lips B B' adapted to embrace the shoe sole just behind is water part, and to receive straps D D', which fasten over the instep, the whole being constructed and operating as described.

No. 36,867.-J. M. H. A. TAURINES, of Paris, France.-Improvement is Sprag Balances.—Patent dated November 4, 1862.—Reference to the specification and drawn; will be necessary for a description of this invention.

Clam.—First, the arrangement and method of constructing balance and weigh-bridge with elastic or spring-like connexions, substantially in manner hereinbefore described illustrated in the accompanying drawings.

Second, the employment of suspension springs in pairs, in manner and for the purposes

her inbefore described and illustrated in the accompanying drawings.

Third, the employment of central springs H, for the purpose of enabling the platform " be loaded at any part for increasing the strength and acting as a regulator, all as herebefore described and illustrated in the accompanying drawings

Fourth, the employment of a lever P, the end of which is free to move in a vertical direction, substantially in manner and for the purposes hereinbefore described and illustrated

in the accompanying drawings.

No. 36,838.—E. A. STEVENS, of Hoboken, N. J.—Improved Means of Protecting No. Vessels.—Patent dated November 4, 1862.—This invention consists in the employment of a sheathing of India-rubber upon the inside or outside of a vessel and placed upon the side top, or bottom of chambers or vessels containing water employed as a protection against missiles. Digitized by GOOGIC

Claim.—The use of a sheathing of gum-elastic or equivalent material applied internally or externally to the side, top, or bottom of a chamber or vessel containing water to be used for immersing ships or as a protection against projectiles.

No. 36,869.—E. A. STEVENS, of Hoboken, N. J.—Improvement in Constructing and Arming of War Vessels.—Patent dated November 4, 1862.—Inside of the upper part of the vessel is placed an inclined metallic armor to extend inward up from a point near the water-line at the sides of the vessel or from a lower deck of the vessel. By this means triangular spaces are left outside of the armor and between it and the sides of the vessel, which spaces are divided into water-tight compartments, and may also be filled with air-tight boxes or bags, in order to give an increased degree of buoyancy to the vessel. Outside of the vessel at or near the water-line is placed a solid mass of timber as an additional protection. Shotproof loading-houses are so arranged and provided with ports, that one or more guns may be pointed to them and loaded by men or steam machinery protected within thom.

Claim.—First, in combination with the means, substantially as described, of depressing

and elevating a vessel for the purposes specified, inclined metallic armor so applied as to be

rendered more fully effective by such depression of the vessel.

Second, inclined metallic armor in combination with the air vessels or compartments F or

F', substantially in the manner and for the purpose hereinbefore described.

Third, the constructing and arranging, substantially as herein described, of air compartments, for the purpose of giving buoyancy and stability to a war vessel, in combination with the means substantially as described of depressing and clevating the vessel.

Fourth, the additional structure G, constructed substantially as described, placed outside the sides of the vessels at or near the water-line, for the purpose of protecting the vessel.

Fifth, shot-proof loading-houses on war vessels, so arranged and employed, substantially as herein described, that cannon outside of them may be loaded from within them.

No. 36,870.—JOEL STONE, of Cleveland Ohio.—Improved Windlass.—Patent dated November 4, 1862.—Upon the shaft of the windlass and outside of the frame on both ends is a set of pulleys. In the middle of the drum is a ratchet and pawl. Upon the shaft of the windlass drum are two gear wheels, which run loosely and are connected with the drum by a pawl attached to the said wheels. In these cog gears work endless screws, which are placed at right angles to the shaft of the windlass, by actuating which the windlass is

Claim.—The use of the two horizontal screws G G, constructing and actuating the windlass B, substantially as described, the windlass having at its extremities a succession of bulleys or grooves C, as set forth.

No. 36,871.-T. R. TIMBY, of Worcester, Mass.-Improvement in Portable Warming Apparatus.—Patent dated November 4, 1862.—This device consists in arranging one cylinder to be filled with hot water within an other cylinder in such a manner as to have a space between the two, which space, when a mild and gentle heat is desired, is filled with air, and

when a greater heat is necessary, is filled with boiling water.

Claim.—The combination of the inner and outer cylindrical cases A C and flange b b', with the openings e c and partition D, when arranged and operating in the manner substan-

tially as described.

No. 36,872.—T. R. TIMBY, of Worcester, Mass.—Improvement in Mercurial Barometers.— Patent dated November 4, 1862.—The barometer is so constructed as to provide for the shutting up of the mercury within the tube, in order to render it portable, and permit the expan sion of the mercury so shut up, and guard against the breaking of the tube.

The cover of the cistern is made of India-rubber or other elastic material combined with the tube that contains the mercury, and is provided with a nozzle for the admission of air above the surface of the mercury in the cistorn, such nozzle having fitted to it a short glass tube to keep it open, and permit the tying over it of a piece of silk or leather, for the purpose of preventing

the tube from being broken at its connexion with the cistern.

Claim .- The tube G arranged in line with and below the tube F, containing the column of mercury, and combined therewith by means of the interposed elastic bottom of the cistern, in such manner as to constitute an expansion chamber in which a portion of the said bottom is

capable of expanding, substantially as and for the purpose herein specified.

Also, making the cistern with a cover of India-rubber or other elastic material combined with the tub F and fitted with a tube d of glass or other hard material, substantially as and for

the purpose herein specified.

No. 36,873.—W. H. TRISSLER, of Burr Oak, Mich.—Improved Stove Blacking or Polish.—Patent dated November 4, 1862.—The nature of this invention is explained by the claim. Claim .- The combination of plumbago, or plumbago and German black-lead, with calcined plaster of Paris and alum, substantially in the manner and for the purposes herein set forth.

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No. 36,874.—Asahel Wheeler, of Newton, Mass.—Improved Copal Varnish.—Paux dated November 4, 1862.—The nature of this invention is explained by the claim.

Claim.—As a new or improved varnish the composition of copal, alcohol and fusil oil, ozbined substantially in the proportions and manner as hereinbefore set forth.

No. 36,875.—JAMES WHITAKER, of Philadelphia, Pa.—Improvement in the Take-up Meim for Power Looms.—Patent dated November 4, 1862.—This invention consists in combant with the ratchet wheel and pawls of a take-up motion for power looms any conver :: number of detachable pins, or their equivalents, acted upon by an additional pawl, so : at the amount of the take-up of the fabric may be readily altered at pleasure, and the nuna; of threads to the inch of the fabric may be increased or diminished without the necessity resorting to the usual tedious plan of changing the train of gearing, by which motion is communicated from the ratchet wheel to the take-up roller.

Claim.—In combination with the ratchet wheel and pawls of a take-up motion for power looms any convenient number of detachable pins z, or their equivalents, acted upon by a additional pawl, or its equivalent, substantially as set forth and for the purpose specific.

No. 36,876.—WILLIAM YAPP, of Cleveland, Ohio.—Improved Mode of Sustaining Gutter to Buildings.—Patent dated November 4, 1862.—This invention consists in providing the gutter with tubes placed at equal distances upon and at angles to the same, so as to of their being slipped over bracket bolts screwed into the wall, and fastened to the said but

by means of springs or pins.

Claim.—The bracket bolt B and tube A, the latter passing through the gutter and civil described for attaching the gutter. at its outer end, in combination with the within described fastening for attaching the grad-

to the house by the bolt alone, substantially as specified.

No. 36,877.—T. B. De Forest, of Birmingham, Conn., assignor to THE SHELTON AND OSBORN SKIRT COMPANY and L. and C. H. De Forest, of the same place.—Improved in Apparatus for Attaching Clasps to Hooped Skirts.—Patent dated November 4, 192.— The nature and object of this invention will be understood from the claim and engravia:

Claim.—The employment of a hopper or shaking table, in combination with a guide :-K, or its equivalent, for guiding the clasps on their backs to the feeder or conductor, suitable

tially as hereinbefore described

Also, the employment of a feeder I or conductor, so constructed as to receive the classes their backs, and reverse their position as they pass down or through it, substantially as in for the purpose set forth.

Also, the moving punch D, in combination with the finger d, or its equivalent, and feeder, the whole so arranged that the punch cuts off one clasp at a time and forms a segment

the feed, substantially as hereinbefore explained.

Also, the combination of the moving punch or set D and its clasp-retaining device $d_i = 0$ the work-supporting die a, substantially as described, whereby the clasps are carried was work and inserted and secured therein, as hereinbefore set forth.

No. 36,878.—J. H. BUTTERWORTH, of Dover, N. J., assignor to Himself and HEXET MCFARLAN, of the same place.—Improvement in Machines for Making Brace Jaws for Stea Boilers.—Patent dated November 4, 1862.—The machine is composed of bending med with ism, and forming dies and mandrels, so combined and arranged as to take a straight 12 of iron, and in three consecutive operations bring it to the form required for the jaws of wa braces for steam boilers.

Claim.—First, the combination of the two plungers D and E and their respective $m \cdot a$ a and ff, arranged and operating as described, to bring the bar from the condition shows in figure 6 to that shown in figures 8 and 9.

Second, the combination of the dies G G H and I and the mandrels m and m, the wh ?

arranged and operating substantially as and for the purpose herein specified.

Third, constructing the mandrel n in a forked form to allow the passage of the mandic a through it, substantially as herein described.

Fourth, the combination of the plungers D E, rollers a aff, dies G G H I, and manded m n, the whole arranged to operate substantially as herein specified.

No. 36,879.—J. N. Bird, of Trenton, N. J., assignor to H. H. Day, of New York, N.Y.Improvement in India-rubber Wads for Projectiles.—Patent dated November 4, 1832.—11. invention consists in making a wad of cylindrical form, with one of its ends concave, of Irerubber, so as to act as an elastice cushion between the projectile and the pressure of the give when the powder is exploded, for the purpose of preventing windage, and which will start of being forced into the grooves of the breech of the projectile.

Claim.—A vulcanized India-rubber wad for ordnance and small arms, applied and except

ting substantially in the manner and for the purpose described.

No. 36,880.—James Dillon, of Lynn, Mass., assignor to Himself and J. B. Nichols the same place.—Improved Channelling Tool for Soles.—Patent dated November 4, 1 Upon the end of the shank of the tool is a tubular cutter und a right angular and cutter, the

latter having two cutting edges at right angles to each other and arranged in relation to the cutting edge of the tubular cutter in such a manner as to form the channel not only with a groove and a flap or cover thereto, but with a right angular seat for the reception and support of the edges of the flap, thus making the said edge a square edge instead of a sharp one.

Claim.—The channelling tool as made with the tubular and angular cuttors B C, arranged substantially in manner and so as to operate as specified.

No. 36,881.—P. W. GATES, of Chicago, Ill., assignor to Himself, THOMAS CHALMERS and D. R. FRASER, of the same place.—Improvement in Evaporative Pans for Saccharine Liquids.—Patent dated November 4, 1862.—A steam coil apparatus is so constructed that when applied to a pan with a rectangular bottom, a defecating apartment at one end of the pan will be formed, and thus the necessity of widening the bottom of the pan near one end for that purpose is obviated.

Claim.—The eteam coil evaporator with the defecating apartment C, substantially in the

manner and for the purpose described.

No. 36,882.—T. D. LAKIN, of Hancock, N. H., assignor to Himself and CHARLES WILDER, of Peterborough, N. H.—Improvement in Ox Yokes.—Patent dated November 4, 1862.— The body of the voke is provided with grooves, one in each end and on its under side, which form guides for the slides. These slides are retained by tubular thimbles which screw into the same, and the upper ends of which pass through slots in the bar. Flanges upon the upper

ends of the thimbles prevent the slide from falling out.

In combination with the staple that supports the draught pole are two stirrups placed at right angles to each other, the staple being provided with three or more recesses in such manner that by means of the stirrups the staple can be fastened in whatever position it may be

Claim.—First, the arrangement of the hollow thimbles C made to receive the bows, and provided with flanged heads c, in combination with the slides B B' and slotted bar A, substantially as and for the purpose specified.

Second, the stirrups E F arranged at right angles to each other, and applied in combination with the semicircular seat h, staple G, and recesses j, as and for the purpose set forth.

No. 36,883.—J. F. TOWNSEND, of Westfield, N. Y., assignor to Himself and P. P. PRATT, of Buffalo, N. Y.—Improvement in Butt Hinges.—Patent dated November 4, 1862.—The object of this invention is to produce a loose jointed door hinge which can be easily adapted to either a right or left hand door, one part being formed with a leaf projecting from the centre of the cylindrical portion in which the pin is set, and the other part, consisting of a longer leaf projecting tangentially from the cylindrical portion or sufficiently to one side of the centre to admit of its closing fully together with the opposite portion.

Claim.—As a new article of manufacture, a hinge composed of the two parts A and B,

arranged and operating substantially as specified.

No. 36,834.—EDWIN ALLEN, of Newark, N. J.—A Carriage or Movable Bed for Forming and Planing Machines.—Patent dated November 11, 1862.—This invention relates to a method of constructing movable beds or carriages, on which wood or metal is placed to be shaped or otherwise operated upon, so that it can freely and easily move in any direction, and at the same time be perfectly solid and steady.

Claim.—The movable carriage, when constructed and operated by the jointed levers, in

the manner and for the purpose herein above specified.

No. 33,835.—W. D. Andrews, of New York, N. Y.—Improvement in Oscillating Steam Engines.—Patent dated November 11, 1862.—The nature of this invention is mainly explained by the claim. Springs are applied to the trunnion boxes, and in such relation to an arc-formed valve face and seat, arranged lengthwise of the cylinder, as to permit the trunnion boxes to adjust themselves to the expansion of the cylinder valve and seat whenever desir-

Claim.—First, the construction of the valve face on the cylinder in the form of an arc of such radius extending the whole length of the cylinder concentric with the axis of oscillation thereof that if continued to a complete circle it would circumscribe the whole cylinder, thereby not only obtaining the greatest practicable length of valve face, but allowing the said face to be turned in a lathe while centred therein for turning the trunnions, substantially as herein described.

Second, the springs E, applied in combination with the trunnion boxes and in relation to an arc-formed valve face and seat, arranged lengthwise of the cylinder, substantially as and

for the purpose herein specified.

No. 36,886.—E. G. F. ARNDT and AUGUSTUS HÜHNE, of Rondout, N. Y.—Improvement in Locks.—Patent dated November 11, 1862.—The case and lock of the bolt are so constructed that the lock may be applied to a right or left hand door. To the bolt is secured a pair of vibrating tumblers, one of which has a spring which tends to force the tumblers towards each other. To the hub is attached a coiled spring, which tends to keep it in such position that its stude will be in a line at right angles to that of the bolt. The bolt may be held in a locked position, so that it cannot be moved by a key, by means of a guard plate, which a ... prevent the button from being moved and consequently hold the bolt.

Claim.—First, the arrangement of the tumblers ff in their relation to the bolt and to i

hub, so that the hub shall bear the thrust of the bolt when pressure is made at the outer a.

Second, the spring n as it is attached to and operates upon the hub, as described.

Third, the guard plate t, in combination with the button k and tumblers f f, as hence kcited.

No. 36,887.—JOEL ARNOLD, of Elmira, N. Y.—Improvement in Stump Machines.—Prodated November 11, 1862.—This invention consists in making the windlass, by which we resistance is overcome, of two or more sections of different diameters, on either of whet." chain is secured and wound, and having arranged in connexion therewith sliding bewhich may be adjusted to any position opposite either section, to which hook the opposite end of the chain may be attached, so that the two ends of the chain shall be in the same line, and so that the draught of the chain shall be equable and regular. Passing through it side of the frame is a sliding detent engaging with ratchets on the side of the driving who of the windless, and operated by a suitable spring which may be raised for the purposed removing or drawing out the detent.

Claim.—First, the windlass C, laving two or more sections a b c of increasing diamers in combination with the sliding and adjusting hook M and chain K, in such a manner with the sliding and adjusting hook M and chain K, in such a manner with the sliding and adjusting hook M and chain K, in such a manner with the sliding and adjusting hook M and chain K, in such a manner with the sliding and adjusting hook M and chain K, in such a manner with the sliding and adjusting hook M and chain K. the device is adapted to overcome different degrees of resistance by shifting the position of

the chain with economy of labor and time, substantially as herein set forth.

Second, in combination with the cog-wheel D provided with lateral ratches & A, a = 2 detent N, spring P, and stop pin m, arranged substantially as and for the purposes here. specified.

No. 36,888.—G. W. BILLINGS, of St. Paul, Minn.—Improvement in Rotary Forcing Press -Patent dated November 11, 1862.—Within a stationary hollow cylinder is a revolution eccentric cam wheel, attached to which and to the cut-off is a follower, and attached to follower and forming a part of it is a stop, which acts as a valve to close one of the pass when the other port is brought opposite to it in the revolution of the cam, thus prevening is escape of the fluid and effecting a saving of power.

Claim.—The eccentric revolving cam wheel BB', in combination with the stationary of inder A A', and with the adjustable cut-off F F', constructed and operating as represented. Fig. 3, also the stop G G', in combination with the cut-off F F and the eccentric and outnecting rod D d and cam wheel B B, all operating in the manner and for the purpose :-

stantially as set forth.

No. 36,889.—A. M. BLACK, of Auburn, Ill.—Improvement in Cultivators.—Patent d.:-November 11, 1862.—The rock-shaft is fitted transversely in the front part of the france 1. has the bars fitted to it which carry the ploughs. The rear end of these bars are countilled. by a cross-bar. To the rock-shaft is secured the front end of an arm or lever extendation the rear of the machine. Secured to this arm is a lever, by means of which the ploughs be raised or lowered by the driver to conform to the inequalities of the surface.

Claim.—The rock-shaft D, with the plough bars or beams E E attached to it, as shown and connected at their back ends by the cross-bar F, in combination with the arm G and the arm I, the latter being provided with the arm J fitted between cleats or projections d d on but I.

all arranged substantially as and for the purpose herein set forth.

No. 36,890.—J. H. Bloomfield, of Chicago, Ill.—Improved Furniture Caster.—Parti dated November 11, 1862.—The cup or socket which contains the ball is provided with party or supports, three of which are arranged upon the same horizontal plane at equal distant from each other, and one in the apex of the cup or socket.

Claim -The peculiar arrangement of the three points c, in combination with the posis when the same are used in combination with the cup and ball of a furniture caster, all keeds constructed, arranged, and operating substantially as and for the purposes delineated at a si

forth.

No. 36,891.—SEYMOUR BOSTWICK and C. G. SARGENT, of Graniteville, Mass.—Improvement in Breech-loading Fire-arms .- Patent dated November 11, 1862 .- This invention sists in the employment of a bent spring for the purpose of throwing up the breech page receive the charge when it is returned into proper position for firing the gun and then ices

against any recoil.

The pivot of the breech piece is in an oblong hole, so as to allow the same to more had and forth as well as up or down. The locking lever has a cam upon its front end, who holds the breech piece tightly against the barrel when closed.

Claim.—First, in combination with a breech piece pivoted by a longitudinal slot, a less spring G that will, when the breech piece is released, first run it back, and then throw it and substantially in the manner and for the purpose described.

Also, the arrangement of the breech piece, locking-lever and trigger, when pivoted or yielding, as described, and controlled by their respective springs, as herein set forth, so that a simple touch of the trigger E allows the breech piece to be thrown up into loading position.

No. 36,892.—H. H. CHRISTIE, of Perch River, N. Y.—Improved Drag and Cultivator Combined.—Patent dated November 11, 1862.—This device consists of a reversible frame provided on one side with sharp square-pointed teeth, and on the other with curved flat teeth acting as shares, so that it can be used either as a harrow or a cultivator.

Claim.—The reversible frame A provided with the teeth C, one end being pointed and the

other curved, constructed and operating as and for the purposes set forth.

No. 36,893.—EDWIN CLARK, of Lancaster, Pa.—Improvement in Grinding Mills.—Patent dated November 11, 1862.—This invention consists in combining with the tube and the disk, or its equivalent, a vertical shaft that passes up through the tube into the hopper for the purpose of facilitating the feeding of grain, &c., from the hopper through the tube to the disk. Claim.—The combination of the disk, tube and vertical shaft, when said shaft passes

through both the tube and the hopper, and stirs or loosens the grain or middlings for the purpose of facilitating the feeding of grain or middlings to the stones or buhrs to be ground, sub-

stantially as described.

No. 36,894.—G. M. CLEMENTS, of Kenduskeag, Maine.—Improvement in Cultivators.—Patent dated November 11, 1862.—The frame of this device is composed of three bars a a a', the central one of which is hinged or jointed at its front end to a rod, the two others being also hinged to the same rod, and the three are connected by transverse rods fitted with screwthreads and nuts, by which means the bars may be securely adjusted nearer to or further from each other.

To the outer side of each of the said bars are attached curved bars E' extending down-

wards and terminating in forks in which rollers are placed.

Claim.—The frame A connected with the draught pole D, as described and composed of three bars a a a' connected together by the rods d'd, and arranged as shown, so that the bars a a may be adjusted nearer together or further apart as desired; in combination with the shares F F and adjustable rollers l l, all arranged substantially as and for the purpose herein set forth.

No. 36,895.—D. C. COLBY, of Claremont, N. H.—Improvement in Cultivators.—Patent dated November 11, 1862.—This invention consists in the employment of two toothed rollers which diverge from front to rear, and are caused to rotate as the machine moves along. each side of the front ends of these rollers and attached to stirrups depending from the draught beam are two rotating toothed wheels. Attached to the draught beam near the front ends of the toothed rollers and between the same is an adjustable ploughshare.

Claim.-First, the arrangement and combination of the rollers E E, the wheels F F, and

the stirrups D D, substantially as described and for the purposes set forth.

Second, the arrangement of the plough II with relation to the front teeth of the rollers E E, in the manner and for the purposes set forth.

No. 36,896 .- A. C. CURRIER, of Hullowell, Maine. - Improved Shot-proof Dome or Cupola.—Patent dated November 11, 1862.—The nature of this invention will be understood by the claim and engraving.

Claim.—A shot-proof dome, substantially as and for the purposes described.

Second, also, in combination with a dome of this character, the arrangement of rubber, boards, felt, tan, sawdust, or, in the place of either, other like material or materials for preventing the reverberation and mitigating the effect of sound, substantially as and for the purposes described.

Third, also the bar for closing the port-hole and the arrangement of the same, substantially

as and for the purposes described.

Fourth, also the open floor for such dome, substantially as and for the purposes described. Fifth, also, in combination with the foregoing, the arrangement of cylinders or other form of receptacle, to aid in supplying the dome with air from without, substantially as and for the purposes described.

Sixth, also the arrangement of rubber or other like material between the dome and sides

of the vessel to keep out water, substantially as and for the purposes described.

Seventh, also the arrangement of raising the dome to throw out any substances which might impede its working or rotation through friction at the point of intersection with the top of the bulwark, substantially as and for the purposes described.

Eighth, also each and all of the several modes of fastening; first, by flanges on the inner side of the ribs or plates and bolts across; second, the bevelling of the plates, the one inward and the adjoining one outward, at an angle more or less obtuse; and, third, the making of the edges of said plates or ribs, the one concave and the adjoining one convex, on a circle smaller or greater to fit into each other, each substantially as and for the purposes described.

Ninth, also the arrangement of raising the dome by a screw, or its equivalent, into the capstan head of which is set the foot of the central shaft of the dome, substantially as and

for the purposes described.

No. 36,897.—G. H. DALEY and R. M. TREAT, of Morris, Conn.—Improvement in Hore Rakes.—Patent dated November 11, 1862.—This invention relates to a friction brake for hore hay rakes, which consists of a transverse bar, block, springs, and connecting rods operates in connexion with a rake had and the wheels of the machine, in such a manner that the div. by pressing his foot upon the lever frame produces frictional contact between the wheels and the brake blocks, so that the rake teeth will be elevated and emptied.

Claim.—The combination and arrangement of the lever frame m m' m', brackets n n like connecting rods o o, and brake D D' D', with a horse hay rake mounted upon wheels, and having a driver's seat, substantially in the manner and for the purposes described.

No. 36,898.—John Davis, of Alleghany City, Pa.—Improvement in Seed-Sowing Harrors.—Patent dated November 11, 1862.—Within the diverging bars of a harrow frame are place! seed rollers, furnished with a number of spiral grooves of different depths and sizes. Over these rollers is placed a case or sheath furnished with a spiral opening, corresponding to the grooves in the said rollers, for the purpose of covering all the grooves except the one desired for use in sowing. The bottom of the seed chamber is inclined so that the seed will fall towards

Claim.—The rollers p and sheath B, constructed and operated substantially as described and used in combination with the seed chambers s, furnished with the inclined bottom, as

herein represented and for the purpose set forth.

No. 36,899.—MILTON FINKLE, of New York, N. Y.—Improvement in Sewing Machines.— Patent dated November 11, 1862.—This invention relates to the driving of a spool or bobble winder without a band by the friction of a pulley or roll attached to the spindle of the speed. and bearing against the fly wheel or other wheel or pulley of the sewing machine, and it consists in a method of applying the spooler or winder to the sewing machine, which provides for its proper adjustment relatively to the wheel or pulley by which it is driven.

Claim. - The arrangement of the spooler or bobbin winder to swing, and also to move longitudinally on a fixed pin attached to the sewing machine, and occupying a position paralel with the shaft of the machine by which the spooler or winder is driven, substantially as in

scribed.

No. 36,900.—IRA DUNHAM, of Plattsburg, Mo.—Improvement in Saddles.—Patent date! November 11, 1862.—The tree of the saddle is provided with a recess for the reception of a seat formed of India-rubber fitting closely in the recess, which is kept securely in its place if a projection at its lower surface, fitting in an opening or slot for the purpose.

Claim. -The employment or use of an India-rubber seat B, provided with a downward projection d, in combination with the saddletree A, which is furnished with a recess & w

receive the projection d, substantially as and for the purpose shown and described.

No. 36,901.—W. H. DOANE and W. E. LONDON, of Cincinnati, Ohio.—Improvement in Combined Planing and Matching Machine.—Patent dated November 11, 1862.—This invented relates to a method of attaching the tonguing, grooving, or matching works of a planing machine to a sliding bed or ways, so that they can be instantly removed out of the way be of the top of the bed upon which the planing tools operate, and that the same machine can be used for planing either wide or narrow lumber without delay in the operation, and also in tonguing, grooving and matching, and planing at one time.

Claim.—First, in a combined planing and tonguing and grooving or matching machine. attaching the tonguing and grooving or matching works that they may be adjusted to a postion above or below the top of the planing bed, substantially in the manner and for the par-

pose described.

Second, in a combined planing and tonguing and grooving or matching machine, the selfing frame or bed D with matching works mounted upon it, and operated by the gearing PP O O Q Q and N, so as to raise or lower the matching works above or below the top of the planing bed, all constructed and arranged substantially in the manner and for the purpose

Third, in a combined planing and matching machine, the arrangement of the screw share v', sliding bed D, with matching works C C mounted upon it, and the aperture w in the closed

frame A, substantially in the manner and for the purpose described.

Fourth, the arrangement of the sliding guard-foot L and its spring p, substantially in the

manner and for the purpose described.

Fifth, the combination of the lower feed roller B' and its boxes a, with dovetail slote bear them, with the dovetail-headed screw bolts d and their nuts e, the whole arranged and operting substantially as and for the purpose described.

Sixth, the arrangement of the checking geared lever segments I I, constructed as described, in combination with a system of expansion gearing for feed rollers of a planing machine. substantially as and for the purposes described.

No. 36,902.—CONSTANT GENTIL, of New York, N. Y.—Improved Spring Bed.—Patent dated November 11, 1862.—This invention consists in the combination of a series of India-rubbernings

with a cord or cords so interluced as to form with the said rubber rings an elastic network, as shown in the engraving.

Claim.—The combination and arrangement of the India-rubber rings B and interlaced cord

or cords D, substantially as and for the purpose above set forth.

No. 36,903.—W. S. Hadley, of Norwalk, Ohio.—Improved Guide Attachment for Taps, Reamers, &c.—Patent dated November 11, 1862.—This device consists of a bell-shaped case provided with a tubular socket at its smaller end, through which and the case the tap or other tool passes. In connexion with the case is a spring, so arranged in relation to the tool and case that the latter will, as the tool is turned and commences its work, firmly adhere to the surface of the article being tapped, reamed, or bored, and serve as a guide for the tool, so that the latter will work perfectly true and without special care on the part of the operator.

Claim.—The case A, provided with the tube B, in combination with a spring D and collar or stop E, applied to a tap or analogous tool, substantially as and for the purpose herein set

forth.

No. 36,904.—S. H. HAMILTON and C. A. ASHTON, of Jacksonville, Ill.—Improved Icecream Freezer.—Patent dated November 11, 1862.—This invention consists in the employment, in connexion with rotary scrapers and beaters, of a rotary cream receptacle operated by means of gearing arranged in such a manner that the cream receptacle will rotate in a reverse direction to the scrapers and beaters, and with a different rate of speed, the parts being so arranged that the beaters and scrapers, either or both, may be rendered inoperative as circumstances may require.

Claim.—The combination of the rotary cream receptacle C and the rotary beaters L L' and frame M, the latter being placed loosely on the shaft I, and connected to it by a bolt a* and the cream receptacle C and shaft I, rotated from the driving shaft G by gearing arranged

as set forth.

No. 36,905.—S. R. HAWKINS, of Beallsville, Pa.—Improved Portable and Convertible Sheep Rack.—Patent dated November 11, 1862.—This invention consists of a jointed folding rack provided with adjustable grain troughs and with hinged lids, or covers, supported by slide bars, so arranged as to serve to feed the sheep with hay or grain, as a shearing bench and as dry receptacle for hay or wool. It may also serve as a fence for enclosing stacks, and affords facilities for small sheep-feeding without being crowded by large sheep, and separates the wasting hay from the seed.

Claim.—First, a sectional, folding, and convertible sheep rack, constructed substantially as

and for the purposes herein described.

Second, the combination of the hinged front of the troughs and the hay rack, substantially as and for the purpose described.

Third, the combination of the hinged lids, sliding supports and sectional rack, substantially

as and for the purpose described.

Fourth, the combination of the vertical division grating c c, slatted hay rack j j, and sectional box AA, substantially as and for the purposes described.

No. 36,906.—T. N. HOSMER, of Todd's Valley, Cal.—Improvement in Spirit Levels.—Patent dated November 11, 1862.—The nature and object of this invention are explained by the claim.

Claim.—The securing of the glass spirit or vials of spirit levels, plumbs, grading imple ments, &c., in their stocks or blocks, by having the boxes in which said bulbs or vials are placed fitted in recesses in the stocks or blocks on a hinge, screw or pivot, and adjusted and secured in proper position by a screw, substantially as herein set forth.

No. 36,907.—Hugh Kerr, of Brooklyn, N. Y.—Improved Tap for Tapping Pipes.—Patent dated November 11, 1832.—This invention consists in having the cutter of the tap made separately from the shank or stock, and having the former fitted in the latter in such a manner that the cutter may be readily detached from the shank and also firmly secured in the same, the object being to adapt the tap to cutters of different sizes, so that the holes of different sizes may have screw threads cut in them by simply inserting the proper sized cutter in the shank.

Claim.—The mode of securing the cutter B in the shank or stock A, as shown and described, by having an opening b made transversely through the outer part of the shank or stock A, and extending out at each end flush with the front end of the shank or stock, and providing the cutter B with a recess c to receive the part c of the shank or stock, in combination with

the key C, substantially as set forth.

No. 36,908.—NEIL MACNEALE and W. B. DODDS, of Cincinnati, Ohio.—Improvement in Locks.—Patent dated November 11, 1862.—The nature of this invention will be learned from the claim.

Claim.—First, the combination of two series of concentric rings of corresponding diameters, one behind the other, the one series provided with gates for the passage of the stump, and the

other with radial talons to impart rotation from one to another of the eccentric rings, the cor responding rings of the two series being connected together in any relative position desired,

by notches and tongues substantially as described.

Second, the plate F, formed with a radial channel for the passage of the stump, and with concentric slots for the reception and guidance of the rings above referred to, when the sail plate is fitted in a lock case A, of the construction described, and held between a shoulder s' and cap B, substantially as set forth.

Third, the combination of the dog L, fixed stump O, and sliding stump K, constructed substantially as described and employed to transfer pressure against any of the rings to a single

fixed bearing.

Fourth, the loose longitudinally sliding or racking stump K, constructed and operating as

herein shown and described.

Fifth, the dog L, formed with an oblique tooth l'', to elevate it completely clear of the racking stump K, by backward pressure upon the bolt, substantially as explained.

Sixth, a stud plate or equivalent device, operating in any manuer, substantially as described, to limit the forward motion of the sliding stump K, and thus permit the descent of the dog into a suitable position to engage with the said stump at the next backward motion.

Seventh, the combination of the hub C, spud c and shaft D, constructed and connected sub-

stantially as described, so as to prevent injury to the working parts of the lock by hammering

or other violence on the exterior.

Eighth, the notch m, or equivalent device, employed to permit a certain limited play of the shart D, in relation to the inner talon J, of the ring I, substantially as explained, in order to compensate for the thickness of the talons

Ninth, the stub b2, and notch b, employed in any manner, substantially as described, to prevent the removal of the cap B, while the bolt is retracted.

No. 36,909.—Joseph Meyer, of Linden Hall, Pa.—Improvement in Cultivator Ploughs.— Patent dated November 11, 1852.—This invention relates to the particular arrangement of parts for the purpose of adapting the cultivator plough to a variety of agricultural purposes,

by which it may be adjusted both as to height and depth, as well as to width and draught.

Claim.—The cultivator plough, constructed, arranged, made capable of adjustment as to height, depth, width and draught, and operating in the manner and for the purpose herein set

forth.

No. 36,910.—J. H. McGuire, of Rochester, N. Y.—Improvement in Skates.—Patent dated November 11, 1862.—The nature of this invention will be understood from the claim and engraving, the object being to attach the skate securely to the foot without the use of straps, and also to give a degree of elasticity to the forward bearing which supports the ball of the foot, the posts or bearings between the foot piece and runner being dispensed with.

Claim.—The clastic support B, for the front of the foot, formed by bending the steel bar backward over the runner, and the rigid support E, for the heels, formed by bending the bar back acutely, and then raising it vertically, when the said supports are disconnected and independent, except through the runner, the whole operating substantially as herein set forth. Also, securing the skate to the foot at the rear, by means of the heel piece K, provided with

the broad tongue h, resting in the corresponding slot f of the heel plate, and at the front by means of the screw l, and nut piece m, the whole arranged and operating substantially as herein set forth.

No. 36,911.-S. M. PARSE, of Newark, N. J.-Improvement in Elbow Joint Bands.-Patent dated November 11, 1862.—This invention consists in the employment of a band of metal shaped to fit the inner and outer angles of the elbow at the joint, the entrance of points into the sharp inner angle holding them secure, and an extension piece in the outer angle of the band being riveted to the inner angles of the pipe.

Claim.—A joint band, when constructed in the manner and for the purpose herein above

specified and shown.

No. 36,912.—Jacob Patterson, of Monroe, N. Y.—Improvement in Pistons for Pumps.-Patent dated November 11, 1862.—Fitted upon a hollow cylinder, provided with a shoulder near its upper part, is a collar or sleeve arranged to slide freely upon the same, its lower end being provided with arms and a central ring through which passes a rod C. This rod extends up through the cylinder, and has a perforated plate attached to its upper end which serves as a guard or stop to the valve. At the lower end of the valve is a screw thread and nut. Between the sliding collar and shoulder on the cylinder is an India-rubber packing. By screwing up the nut on the rod the packing will be expanded, and thus may be always kept in working order.

Claim.—The combination of the two open adjustable cylinders or sleeves A B, open ring c, and packing F, with the rod C, valve E, perforated plate f, and nut D, all in the manner

herein shown and described.

No. 36,913.—CHARLES PONTEZ and C. L. MCALPINE, of New York, N. Y. Improvement in Forming Sub-Foundations.—Patent dated November 11, 1862.—Ante-dated May 11,

1862.—This invention consists in forming a foundation of concrete or other solid material, which extends laterally beyond and beneath the area enclosed by the hollow pile, instead of the usual plan of filling the hollow cylinder or pile directly with sand or concrete.

Claim.—The method of forming sub-foundations, as herein shown and described, which

consists substantially in extending the foundation from within the tube, as set forth.

No. 36,914.—S. O. Post, of Chicago, Ill., and E. J. Post, of Vienna, N. J.—Improvement in Azles and Reaches for Vehicles.—Patent dated November 11, 1862.—The bar or bolster which connects the axle arms together is made of corrugated sheet metal, and is secured to the same by bolts or rivets.

Claim.—The application of corrugated sheet metal to bars or bolsters, for wagon axles, and the mode of securing the arms to the same, in the manner described, and for the purposes

nerein specified.

No. 36,915.—SQUIRE RAYMOND, of Venics, N. Y.—Improvement in Horse Pitchforks.—Patent dated November 11, 1862.—This device is composed of two forked arms attached by joints to a pulley frame, the said arms being connected by levers and operated by means of a rope attached to a horse, so that the hay can be taken from a cart and raised to the desired spot, when it is discharged by pulling a cord attached to the lower part of one of the forked

Claim.—The fork arms D D, attached by pivots or joints to the pulley frame B, in combination with the arms or levers E E', secured in the fork arms D D, by pivots f' f', and connected at their inner ends by a pivot f'; the lever E', being provided with an extension g, and all used in connexion with the rope F and cord J, arranged as and for the purpose set

No. 36,916.—NATHANIEL RICHARDSON, of Byberry, Pa.—Improvement in Coupling Thills to Arles.—Patent dated November 11, 1862.—In this device the clip is of ordinary construction, and the joint socket of the thills is secured between its bearings in the usual manner and coupled by means of a simple plane bolt. Instead of being cut with a screw thread on its end and held by a nut, it is retained in place by a flat bent spring resting against its head. On the inside of the head of the coupling bolt, and resting between it and the bearing of the clip, is a cooled spring which encircles the bolt and presses its head outwards against the end of the aforesaid bent spring.

Claim.—Retaining the coupling bolt C in place, and preventing its rattling, and at the same time allowing it to be easily and expeditiously inserted or removed, by means of the retaining spring D resting against it, and the coiled spring c, or its equivalent, reacting to throw it outward, the whole being arranged, combined, and operating substantially as herein

set forth.

No. 36,917.—A. T. SCHMIDT, of Pittsburg, Pa.—Improved Apparatus for Burning Liquids Lighter than Water.—Patent dated November 11, 1862.—This invention consists in a method of using oil or other inflammable fluids of a specific gravity lighter than water, as a fuel for the purpose of heating, cooking, generating steam by burning it without any wick or other solid vehicle, as it floats on the surface of a body of water, through which it is passed to supply the consumption caused by combustion. The water and oil are placed in an iron vessel over the furnace, and provided with the proper pipes leading from supply cisterns, and also with tubes for admitting air to the body of the flame.

Claim.—The mode hereinbefore described of employing carbon vil, coal oil, and other similar fluids or compositions of fluids, as fuel for furnaces, fireplaces, &c., by passing it through water, on the surface of which it is ignited, in the manner and for the purposes here-

inbefore described.

Also, the use of apparatus for burning carbon oil and other similar fluids as fuel, consisting of a fire-box supplied with water and oil or other burning fluid, by means of pipes,

from suitable reservoirs of those fluids.

Also, the use of apparatus for burning carbon oil and other similar fluids as fuel, consisting of a fire-box hung on pivots or gimbals, and having projections inside to prevent the overflow of the water, combined with a fire-chamber inserted in the fire-box, so as to be immensed in the water, thus confining the oil or burning fluid within the fire-chamber, substantially in the manner hereinbefore set forth.

No. 33,918.-L. M. SEVERANCE, of Dixon, Ill.-Improvement in Platform Scales.-Patent dated November 11, 1862.—This invention consists in a combination of levers and beams in connexion with the scale, by which it is designed to render the apparatus simple in construction, as well as compact and portable.

Claim.—The combination of the parallel beams B B, and levers D' D' D" and I, and

the scale beam L, all arranged as herein set forth.

No. 35,919.—F. G. SHALLING, of Somerset, Mass.—Improvement in Locks.—Patent dated November 11, 1862.—Each tumbler is provided with an inverted T-shaped slot to receive a hasp or eye which passes into the case through an opening in its upper edge, the spring of tending to keep the right-hand edges of the slots in the said eye and securing them in his case. A stop E is attached to the upper end of a vertical bar which is placed agains a end of the case, the said bar having a spring G connected with it which tends to keep a stop down back of the tumblers and prevent them from being shoved back to release the co. so that the stop and tumblers require to be acted upon simultaneously, which admits of the use of the proper key only in unlocking the lock.

Claim.—The combination of the tumblers B, stop E, and plate H, with the spring of applied respectively to the tumblers and stop, and all arranged to operate as and $k \epsilon =$

purpose herein set forth.

No. 36,920.—Jesse Sinclair, of Davenport, Iowa.—Improved Animal-Shoeing &ct.-Patent dated November 11, 1862.—This invention is designed more especially for shor z vicious or fractious animals, and consists in an arrangement of lifting bars and belly as back girths, with the cord and windlass and a proper actuating mechanism. For rest at also provided for supporting the animal's foot while the shoe is being fitted and nakd.

Claim.—First, the lifting bars G and girths J J' and K K', in combination with the cord d, windlasses F F', gear wheels n o, and winch m, when arranged to operate in the matter.

and for the purpose specified.

Second, the foot-rest H, shaft f, and lever g, in combination with the arm L and ring a when arranged to operate in the manner specified.

No. 36,921.—H. B. SLAUGHTER, of Crumpton, Md.—Improvement in Preserving from &c., in Sealed Cans.—Patent dated November 11, 1862.—This invention is explained by := claim.

Claim.—In the process of preserving fruits, meats, &c., in hermetically scaled carriars, leaving an opening or openings in the can or jar, and immersing it in sirup or distributed and boiling it thus immersed or submerged, so that the sirup or liquid may circuse through the fruit or other contents of the can or jar, substantially as herein described.

No. 36,922.—C. W. Taliaferro, of Keithsburg, Ill.—Improvement in Cultivators.— Patent dated November 11, 1862.—This invention consists in a method of arranging a server gang of ploughs attached to a mounted frame, so that they may be readily raised and hour eand also adjusted or turned either to the right or left, as circumstances may require. Also to the draught pole is a bar which extends backward underneath the frame, and haster toothed wheels secured to it, one at each side, which serve to protect the plants from :clods of earth thrown up by the foremost shovels or ploughs.

Claim.—First, the plough beams G, connected at their front ends by universal joint of pendant supports I at the front part of the frame A, and provided at their back ends in journals c, which are fitted in pendant guides H at the back ends of the frame A, in contain with the uprights h j, bar L, and rock-shaft M, with treadle or foot-piece N attacks all arranged as and for the purpose set forth.

Second, the rotary shield or guard formed of the two wheels Q Q, provided with 19-2 teeth or rods m, and attached to the bar P, which is connected to the draught pole B by a links ll, substantially as and for the purpose set forth.

No. 36,923.—HIRAM STORMS, of Ann Harbor, Mich.—Improvement in Carding Engine — Patent dated November 11, 1862.—This invention consists in inserting in the spaces between cards of the fancy cylinder strips of wood or other material coated on their faces with example. These emery-coated faces being even with or slightly below the tops of the teeth of fancy cylinder, and moving at a higher velocity than the tops of the teeth of the main cylinder. serve to keep the teeth of the said cylinder always ground and sharp

Claim.—Furnishing the fancy cylinder of a carding machine with emery-coated stry. grinding surfaces of similar character arranged in the spaces between the cards, sub-

tially as herein specified.

No. 36,924.—M. H. SMITH, of Four Corners, Ohio.—Improved Apparatus for Evaporation Saccharine Liquids.—Patent dated November 11, 1862.—This apparatus consists of the four separate pans communicating with each other by means of faucets, and placed at different control of the separate pans communicating with each other by means of faucets, and placed at different control of the separate pans communicating with each other by means of faucets, and placed at different control of the separate pans communicating with each other by means of faucets, and placed at different control of the separate pans communicating with each other by means of faucets, and placed at different control of the separate pans communicating with each other by means of faucets, and placed at different control of the separate pans communicating with each other by means of faucets, and placed at different control of the separate pans communicating with each other by means of faucets, and placed at different control of the separate pans communicating with each other by means of faucets, and placed at different control of the separate pans communicating with each other by means of faucets, and placed at different control of the separate pans control o levels in such relation to each other that the liquid can be made to flow with more comvelocity successively from one pan into the other, each pan being provided with a serve transverse partitions in combination with strainers fitting loosely on the said partitions : such a manner that they can be adjusted in the proper position to allow the liquid to through them in flowing from one pan to another. At or near the bottom of the several titions are narrow central openings, so that in boiling the liquid an under reverse exfrom the sides of the pans to their centre is produced, which causes the liquid to pass " the hottest part of the same, and permits no portion to remain in any of the pans.

Claim.—First, the arrangement of the pans B C D E, provided with transverse pa b' c' d' e*, and communicating with each other by faucets $f \in A$, or their equivacombination with the main furnace A and the side furnace G, all constructed and open of the constructed and open o

as and for the purpose described.

Second, the arrangement of the central apertures s and side apertures s' in the process of d' s' of the pans B C D E, as and for the purpose specified by b' c' d' e* of the pans B C D E, as and for the purpose specified.

No. 36,925.—FRANKLIN WESSON, of Worcester, Mass.—Improvement in Breech-loading Fire-srms.—Patent dated November 11, 1862.—This invention consists in the employment of a slotted slide link composed of a flat piece of steel plate fitted in a groove provided for its reception in one side of the barrel near its rear end. This link is slotted longitudinally, and has also a transverse slot at the bottom of the same. The longer slot receives a small pin h secured in the barrel within a groove, and the shorter or transverse slot receives the end of a pin is screwed through one side of the frame. The barrel is secured in a closed position by means of a bolt E arranged to slide in a groove in the bottom of the frame. On the rear end of this bolt is formed a tongue m which enters a notch in the tumbler or but of the hammer, so arranged that the bolt cannot be drawn back except when the hammer is at half cock.

Claim.—First, the combination of the double-slotted oscillating link D and pins h i with

the frame A and barrel C, in the manner herein shown and described.

Second, the combination of the tongue m with the locking bolt E, as herein shown and described.

No. 36,926.—P. D. WESSON, of Providence, R. I.—Improvement in Evaporators for Saccharine and other Liquids.—Patent dated November 11, 1862.—This invention consists in the application to a steam jacket used in connexion with an evaporating apparatus, of a steam trap, the operation of which is based upon the expansion and contraction of a metal bar or tube caused by the rising or falling of the temperature of the medium surrounding the same or passing through it, in such a manner that by the action of said trap the temperature in the interior of the steam jacket is not permitted to exceed certain limits either up or down, and consequently the heating or burning of the liquid is avoided, and a uniform temperature maintained.

form temperature maintained.

Claim.—The application of a steam trap E to the steam jacket B, when the latter is used in combination with an evaporating pan A, substantially as and for the purpose herein.

specified.

No. 36,927.—R. T. WILDE and S. H. LYON, of Brooklyn, N. Y.—Improvement in Dies for Forming Hats.—Patent dated November 11, 1862.—The nature and object of this inven-

tion are explained by the claim.

Claim.—The construction of the upper die with a cavity c so formed in its face that it acts upon the upper surface of the brim of the hat, only close to the sides of the crown, and at the margin thereof, but yet confines the heat to the said surface, substantially as and for the purpose herein specified.

No. 36,923.—J. M. WOODCOCK, of Bridgeport, Ohio.—Improvement in Horse-Rakes.—Patent dated November 11, 1862.—The rake and rake-head are of the usual construction. Secured to the axle is a perpendicular post, in which is arranged a sliding weight attached to a cord which passes over a pulley and is secured to the rake-head for the purpose of raising the latter. To prevent the hay from rolling, and to clear it from the teeth when elevated, use is made of dischargers consisting of coiled wire attached to the axle, and so curved and pitched downwards as to press upon the hay and prevent it from spreading as the teeth pass over it. Attached to the rake-head is an arm extending part way to the axle, and attached to the axle by a bolt passing through it and the axle, which, in connexion with a curved arm and spring, are made to lock the teeth at any required elevation from the ground.

Claim.—The combination of weights with the rake-bar so that the teeth may be lifted with ease off from the ground, or may be operated automatically, substantially in the man-

ner as herein shown and set forth.

Also, the use of spring clearers or dischargers, in combination with spring rake-teeth, the two being arranged to operate in conjunction with each other in the manner and for the

purpose set forth.

Also, the herein-described device for locking, at any required elevation from the ground, of the rake-bar, the same consisting of a curved ratchet bar fast on and movable with the tilting rake-bar, in combination with a mortise and spring latch fast on the axle, the said parts being arranged as described to operate in the manner herein set forth.

No. 36,929.—WILLIAM WORKMAN, of Ripon, Wis.—Improvement in Broad-cast Seeding Machines.—Patent dated November 11, 1862.—Corresponding in position with the discharge openings of the hopper, and directly under them, are situated conductors or tubes for conveying the seed, and under the conductors are curved pieces termed scatterers which are formed with a rounded, inclining surface so as to disperse on all sides the seed falling thereon. The lower ends of the conductors are of a narrow oblong shape, longitudinally of the scatterers, so as to concentrate the seed as it falls through the openings. The shanks of tho teeth are set in bars vibrating upon and extending back from a shalt in the rear of the hopper, and are provided with a set of adjusting holes through either of which and the sides of the teeth-bars are inserted wooden pins. Beneath the teeth-bars the shanks are respectively provided forks or projections which serve as braces to sustain the teeth against any obstruction that may be easily overcome.

Claim.—In combination with the convex, rounded scatterers M M, the conductors L L, the bottom discharge opening thereof being formed of narrow oblong shape longitudinally of the scatterers, in order to direct the seed to the centre of the same, and thus insue a proper and equal dispersion at all times, constructed and arranged as herein set forth.

proper and equal dispersion at all times, constructed and arranged as herein set forth.

Also, the teeth shanks P P, provided with adjusting holes n n, and with the reasonable projecting forks r r in combination with the bars O O, the whole arranged so that the set shanks are braced against obstructions, and so that they may be set at different angles, as

structed and arranged as herein described.

No. 36,930.—G. C. WORTH, of Upper Sandusky, Ohio.—Improved Rein-Guard for Horses.—Patent dated November 11, 1862.—This invention consists in the attachment to the rear part of the harness, or to the horse, of a device extending over the dock, over a through which device the reins pass in a direct line from the terret eyes of the saddle aback pad or hames to the hand of the driver, for the purpose of preventing the hone must catching the reins under his tail.

Claim.—First, the application of a light frame, plate, or guard to the rear part of the harness or horse, or to the reins or lines, when said frame, plate, or guard shall extend over a part or the whole of the horse's dock, and over or through which said frame, plate, or

guard the reins or lines pass.

Second, the combination of the frame A with the loop B or its equivalent, as and for its purposes described; whether the said frame be covered with cloth or net-work or not, or whether the said frame be made wholly or in part of India-rubber or other elastic gum.

Third, the frame A and loop B, in combination with the eye or eyes G and G', either with or without the cloth or net-work covering I, substantially as and for the purposes set forth

No. 36,931.—J. O. CLAY, of Hudson, Wis., assignor to F. C. GRIDLEY, of the samplace.—Improvement in Weather-Strips.—Patent dated November 11, 1962.—To the levil edge of the door is attached a strip bent so that its lower portion forms an angle with the inside face of the door, and upon the sill of the door is a plate connected to the same by means of hooks and staples so as to swing up and down freely. From this plate extens upwards an arm or tappet, so that when the door is being closed the edge of the stational strip catches under the tappet, and when the door is completely closed the plate is turned up by the action of the strip on the tappet, and completely closes the crevice between indoor and the sill.

Claim.—The combination of the tappet s with the hinged plate C and strip b, in the xiver herein shown and described.

No. 36,932.—James A. and Henry A. House, of Brooklyn, N. Y., assignors to Tip 1 selves and A. G. Seaman, of the same place.—Improvement in Sewing Machines.—[13] dated November 11, 1862.—Reference to the specification and drawings will be necessary for a description of this invention.

Claim.—First, the combination of an eye-pointed needle, working up from below table, and penetrating the fabric with a thread-carrier, also working up from below and penetrating the fabric, substantially in the manner described, for the purpose set forth.

Second, mounting the entire stitching mechanism upon an independent skeleton framed disk, having a periodical intermittent rotary movement imparted to it, substantially in the

manner described, for the purpose set forth.

Third, the combination of a bed-plate, upon which the material to be sewn is clared having a periodical intermittent progressive motion in a rectilinear path, and in alternation opposite directions, with an independent disk or frame carrying the stitching mechanisms having an occasional intermittent rotating movement in one direction, when co-open a substantially in the manner described, for the purpose of working automatically both six and the eye of a button-hole, as herein set forth.

Fourth, the combination of a stitching mechanism, substantially such as described with a bed-plate or table upon which the fabric rests, in such a manner that the whole of the combination of the combinat

tire mechanism shall be beneath the bed-plate, as herein described.

Fifth, the combination of an eye-pointed needle with a shank so curved or bent that the needle shall move parallel to the shank and carry its loop through the fabric, while the river vibrates near the edge thereof, substantially in the manner described, for the purpose of a fabric, as herein set forth.

Sixth, the curved finger or thread-carrier s, when arranged and operating substant and second

and for the purpose specified.

Seventh, the combination of the inclined shaft N of the thread-carrier, when made to a in open bearings, with a retaining spring #2, substantially as described, for the purpose of forth.

Eighth, the combination of the cam O, inclined shaft n, and needle-mandrel K, when operating, substantially in the manner and for the purpose described.

Ninth, the combination of the rotating disk G and stitching plate M, as and for the 72 pose described.

Tenth, the combination of the stitching-plate M and tension-post m, substantially for the purpose described.

leventh, the combination of the spool-case P P', disk G, needle t, and thread-carrier n, n arranged and operating substantially in the manner described.

welfth, the combination of the spool-case P, tension-post R', adjusting spring S, and and-carrier n, substantially as described, for the purpose of regulating the position of the rl, as torth.

hirteenth, the combination of the sliding frame B and traversing screw E, substantially he manner and for the purpose set forth.

courteenth, the combination of the rotating disk G with the friction-springs T, substan-

ly as and for the purpose described.

itteenth, the combination of the adjustable guide bar I 2 and fixed bar I', with the sliding ne B, substantially in the manner and for the purpose described.

ixteenth, the combination of the guide bars I' I 2 with the stop-lever I and spring pawl substantially in the manner and for the purpose described.

wenteenth, the combination of the shifting lever U with the rotating disk C', substanly in the manner and for the purpose described.

lighteenth, the combination of the pusher h, ratchet wheel H, and spring pawl h3, sub-

ntially in the manner and for the purpose described. Nineteenth, the combination of the groove V on the bed-plate, with the stop pin v' on the

k, substantially as and for the purpose set forth. I wentieth, the combination of the two sections G G' of the disk, when connected and co-

nating substantially in the manner and for the purpose described. I wenty-first, the combination of the tension-posts R R' with the disk G, when arranged

reath the same as and for the purpose described.

I'wenty-second, the shield or thinble M' to protect the needle, to bear upon the fabric, and retain the gimp in position, substantially in the manner described.

No. 36,933 .- ABEL PUTMAN, jr., of Chester, Vt.-Improvement in Spring Hooks for Fasten-Garments.—Patent dated November 11, 1862.—This invention consists in the employnt of a spring hook attached to a button or head, or formed with a ring or loop to serve as ead, the spring hook being so constructed as to pass through the hole or eyelet in the garnt, and be securely retained therein.

Claim. - A spring hook or fastening A formed of a piece of wire doubled and bent, as shown, combination with the button or head B or ring C, or other equivalent, for the purpose

cified.

No. 36,934.—ALFRED BERNEY, of Jersey City, N. J.—Improved Liquid-fire Shell or Projece.—Patent dated November 11, 1862.—This projectile is formed of a hollow shell, through e centre of which passes a tube which contains the bursting charge of powder. The cavity rrounding the tube is filled with a composition consisting of benzole, crude petroleum, coal , turpentine, residuum from distilled petroleum, and coal oil from coal tar.

Claim. -The composition for filling shells composed of the materials and in the proportions

bstantially as set forth.

Also, as a new manufacture, a fire shell, composed of a hollow shot A, strong tube or amber C for the bursting charge of powder, and filling tube B, all substantially as and for a purpose set forth and described.

No. 36,935 .- Hugh Barr, of Independence, Iowa .- Improvement in Churns .- Patent ted November 18, 1862.—This apparatus consists of a box which is caused to revolve upon haft attached to its under part. Within the box is a stationary shaft provided with beaters brakes formed with bevelled front faces and flat on their rear sides. These brakes are ationary, and the churn is made to revolve around them.

Claim .- The rotary cream box I, in combination with the stationary brakes MM, provided one side with V-shaped faces e, and at the opposite side with flat faces f, when said brakes e placed in an inclined position, as and for the purpose herein set forth.

No. 36,936 .- ALEXANDER BECKERS, of Hoboken, N. J. - Improved Steering Apparatus. tent dated November 18, 1862.—This invention consists in the employment of a drum formed two cylinders of different diameters, which drum moves with the tiller, and to which ropes or rains are attached that pass through fixed blocks at or near the bulwarks. The double drum ing of unequal diameter, the rope or chain at one side is shortened as the rope on the opsite side is lengthened by the rotation of the drum, and the rudder is thereby easily moved. Claim.—The barrels 1 and 2 on the arms c c or tiller, in combination with the ropes or mins h and i and sheaves or blocks f and g, substantially as and for the purposes set forth.

No. 36,937.—JOSEPH BERTHOUD, of Paris, France.—Improvement in Apparatus for anoramic Advertising.—Patent dated November 18, 1862.—This apparatus is composed of strip of cloth, upon which advertisements are printed and which is wound upon two rollers,) that as the latter revolve notices are alternately presented to the eye; and the invention onsists in an arrangement of levers, ratchet and stop wheels, in connexion with the rolls, in

such a manner that the motion of the cloth may be arrested and the cloth held in the least position, or the motion reversed upon intermittently pulling a cord properly attacked.

Claim.—The levers l and m, the ratchet wheel c', and the stop wheel f, combind in the stop wheel f, combind in the stop wheel f.

carrying rolls d and i, when actuated substantially as described and for the purposper-

No. 36,938.—JOSEPH BRADT, of La Porte, Ind.—Improvement in Bechives.—Part ... November 18, 1862.—In this hive the entrance is so arranged that the bees are calinstead of being obliged to crawl to the cross-bars to which the comb is attached, sidehive is filled with the comb and honey, the bees work up to the boxes over the main! there deposit the surplus honey, which can be removed at pleasure, the object being by the moth from depositing eggs within the hive. The bottom of the hive is formeled partitions, which allow the extraneous matter to collect in a drawer below, and have the inclined portions is a hinged flap that admits of inspection of the hive.

Claim.—The construction of the hive or main box b with bars f, flap d, and include: toms g, arranged and operating with the entrance D, box A, honey boxes a, and district

set forth and described.

No. 36,939.—ABEL BREAR, of Saugatuck, Conn.—Improved Apparatus for Raint to Forcing Water.—Patent dated November 18, 1862.—This invention consists of an apparatus of the consists of an apparatus of the consists of the cons for raising and forcing water or other liquid by the pressure of steam, compressed at the upon its surface in a suitable vessel, into which it runs by gravi ation, and is forced pressure of the atmosphere after a vacuum has been produced by the condensation of

Claim.—The apparatus composed of the vessel A, pipe or opening B, pipes 6 D. acid or its equivalent, and the two self-acting check valves C E, the whole combined to a -

substantially as herein specified.

No. 36,940.—F. H. Brown, of Chicago, Ill.—Improved Gas Regulator.—Patent is November 18, 1862.—Within a gas burner is placed a bivalve bellows consisting of the cular pieces of rubber, or other similar flexible material, connected together at their care attached to the top of a tube by means of a flange. To the upper side of the below: secured by a nut a rod which passes downwards through the bellows, and terminate is cone-shaped valve. The upper side of the bellows is caused to move by the pressure of the gas, by which means the opening of the valve below is regulated according to the pression on the bellows.

Claim.—First, the bivalve bellows A, made, constructed, and operated as and for the ...

poses set forth.

Second, tube F, in combination with flange a and bellows A, constructed and arms. and for the purposes specified.

No. 36,491.—ALEXANDER BUCHANAN, of New York, N. Y.—Improved Slide Valu Steam Engines .- Patent dated November 18, 1862.-This invention relates to an oscillation segment valve, the face of which is curved and oscillates upon a seat of corresponding and the invention consists in combining the valve with the pendulum or oscillating which it is attached by means of a flexible and elastic plate, which constitutes a process the back of the valve, and which, while it allows the greater portion of the pressure proby the steam on the back of the valve to be transmitted to a fixed bearing at the united. lation, at the same time permits the valve to be pressed against the seat with suffice. to counteract the tendency to lift the valve, which effect is produced by the presented steam in the ports during portions of the stroke of the valve.

Claim.—Combining an oscillating segment valve A with the pendulum or oscillating. I, which suspends it from fixed bearings by means of a flexible and elastic place. equivalent, constituting a portion of the back of the valve, substantially as and for the

pose herein specified.

No. 36, 492.—E. J. CHAPIN, of Ottawa, Ill.—Improvement in Watchmakers Latin Patent dated November 18, 1862.—This invention consists in the combination of a naof devices in such a manner that all the different lathes used by watchmakers may be and used with a single bed-piece and with but one driving mechanism, and at the acre be capable of a ready adjustment and operation. Reference to the specification and it is small to process are for an understanding process. will be necessary for an understanding of the construction and operation of the mach re-

Claim.—First, the mode of attaching the bed-piece I to the table or beach A, as the described, to wit, by means of the bell shaped base H, fitted on the annular way tr secured thereto by the screw K, hook J, and pin L, all arranged as shown, to admit the strength of the little by the screw K, hook J, and pin L, all arranged as shown, to admit the screw K.

turning or adjusting of the bed-piece I on the table or beach. Second, the gear-cutting frame S provided with the mandrel T, cutter I, and sets and connected to the sliding plate f by centre points g g to admit of the mising and of said frame and its proper adjustment relatively with the wheel to be cut, as set to Third, the combination of the mandrels J O with the bed-piece I, rests KN, chuck M. gear-cutting frame S, all arranged acadescible.

gear-cutting frame S, all arranged as described, to form a new and useful lathe, for the pose herein specified

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No. 36,943.—C. B. COTTER, of Milford, Pa.—Improvement in Moulds for Casting Metals. atent dated November 18, 1862.—The composition used in this invention consists of hickory to ther hard-wood ashes, which are sifted and ground to the fineness of flour, and are then ampened with concentrated lye and worked to the consistency of putty. To this composition my be added hydraulic or plastic cement when desirable.

Claim.—The composition substantially as above described, whether the same be of ashes nd lye alone, or the same in combination with the hydraulic or plastic cement, as and for

ie purposes set forth.

No. 36,944.—JOHN P. COWING, of Seneca Falls, N. Y.—Improvement in Bell Yokes and astenings.—Patent dated November 18, 1862.—This invention consists in making the voke ith a square hole to receive the bolt that holds the bell, the bolt having four or more flat ides so that the tongue will always swing at right angles with the yoke; and by turning ne bell upon the bolt, the tongue may be made to strike upon a different part of the bell.

Claim.—Making the yoke of the bell with a square hole to receive the bolt that holds the ell.

Also, the bolt, with four, more or less, flat sides to fit the corresponding hole in the yoke, with the hole in the top of the bell sufficiently large to turn on the corners of said bolt, for the

urposes above specified.

No. 36,945.—J. L. Ellis, of Concord, Ill.—Improvement in Cultivators.—Patent dated lovember 18, 1862.—This machine consists of two rock shafts, having shovels or shares tached to their lower ends and pivoted to transverse bars. To each of the rock shafts is ttached an upright, the two being connected at their upper ends by a cross-bar, and by seans of a lover, within reach of the driver, the shovels may be moved to the right and left t pleasure as the machine moves along. The main frame consists of two parallel side bars onnected by angular bars, which are elevated at the centre so as to pass over the plants. he driver's seat is placed upon two curved bars, secured at their ends to two parallel bars thich are pivoted to the rear of the main frame.

Claim.—The rock shafts C C, uprights D D, connected at their upper ends by the bar E nd the lever I, said parts being applied to the main frame A, provided with curved transerse bars B B', in combination with the supplemental frame composed of the parallel bars. L and curved transverse bars K K, with the driver's seat J attached, the supplemental rame being mounted on wheels connected to the main frame, and all arranged to operate as

nd for the purpose set forth.

No. 36,946.—JOHN FARRELL, of New York, N. Y.—Improvement in Locks.—Patent dated ovember 18, 1862.—This invention consists in mounting the lever tumblers on an axis at rabout the centre of their length in combination with the placing of the pins or plugs and he keyhole, so as to act on the rear ends of the tumblers instead of the forward ends, which tter perform the functions of stops to prevent the bolt from being thrown back, so that if 10 sliding pins in the inner lock plate be cut or broken or otherwise taken out their forward ud will not be prevented from acting as stops to hold the bolt, and thus prevent it from being

Claim.—As an improvement on Hall's lock, (patented August 1, 1848,) mounting the lever imblers on an axis at or about the middle of their lengths, substantially as described, in ombination with the placing of the keyhole, so as to act on their back instead of their for-

ard ends, substantially as and for the purpose described.

No. 36,947.—J. W. Foust, of Hammondsburg, Pa.—Improvement in Hay-loading Ma-lines.—Patent dated November 18, 1862.—This invention consists in the employment of wolving rakes in combination with endless chains having transverse slats or bars attached, ad arranged in connexion with a wagon so as to rake and carry up the hay from the indrow and deposit it on the wagon as the latter is drawn along.

Claim.—The revolving rakes formed of the teeth b, attached to wheels A and provided with

he arms D, in combination with the pendent bars h, pins i or their equivalents, and the ndless carrier formed of chains f f, the cross-bars or slats q and the cords j, all arranged as hown with the frame D', to operate as and for the purpose herein set forth.

No. 36,948.—B. and C. FURNAS, of Ononwa, Iowa.—Improvement in Cultivators.—Patent and November 18, 1862.—This machine is constructed of two parallel bars H H', secured y pins at their forward ends to pendent bars attached to a cross-bar which is supported upon te draught pole. Upon the roar end of the bars H H' is the driver's seat, and fitted in mitable bearings are also two bars M connected at their rear ends by a curved cross-piece so s to form a back for the driver. The beams G which carry the ploughs are so connected ith the front ends of the bars M, that by depressing the latter the ploughs will be raised from the ground. Levers or "treadles" are also pivoted to the plough-beams and connected y a cord or chain to a bar above, so that by depressing the levers with the feet the ploughs ill be raised from the ground. To the plough-beams are also attached uprights fitted in nides in a transverse bar, the uprights being connected by a cross-bar provided with a series

of holes through which pins pass into the upright, so as to admit of an adjustment die

plough-beams to a greater or less distance apart.

Claim.—First, the bars H H', connected at their front ends to the pendents F.F. an wided at their back ends with the driver's seat I, in combination with the bars M M nected at their back ends with the cross-piece N, and attached to the plough-beams (.). the cords or chains k k, all arranged substantially as and for the purpose herein set to x. Second, the treadles K K, when attrached to the plough-beams G G, and connected

cords or bar L by the cords or changs l, as and for the purpose herein set forth.

Third, the uprights O O attached to the plough-beams G G fitted in the guides m m d !! bar L, and connected by the bar P, substantially as and for the purpose specified.

No. 36,949.—P. W. GATES, of Chicago, Ill.—Improvement in Apparatus for Eraporate Saccharine Liquids .- Patent dated November 18, 1862 .- This invention consists in the bination of a fire-arch having a divided fire-flue, a damper, and lateral hot-air flue. evaporator pan having a defecating apartment and a finishing department. The bottom the defecator is a lateral continuation of the bottom of the pan which causes the juic to to freely to the latter. The divided fire-flue is provided with a damper, so that either flue in be used separately when desired At the bottom of the pan are arranged steam controls. or more of the bends of which extend from one end of the pan to the other, while the wa bends extend only the length of the flues.

Claim.-First, the combination of the fire-arch, damper, evaporating pan and defect : and finishing chambers, arranged in the manner and for the purposes herein set forth.

Second, the combination with the fire-arch and damper of steam coils G G' and evapor. ::

pan C C', substantially as and for the purposes herein described.

Third, the construction of the steam coils with long and short bends, substantially as a: for the purpose described.

No. 36,950.—WM. HAILES, of Albany, N. Y.—Improvement in Grates for Coal Stores of Furnaces.—Patent dated November 18, 1862.—This invention consists of a circular rehaving a series of projections on its outer periphery, and upon its inner rim a series of and short projections alternating with each other, and so arranged that the ashes specificater at the centre than at the circumference. The grate rests upon a bar having a cast in it for the reception of a projection, on the grate the size of the loop limiting the later.

ment of the grate.

Claim.—The projections d d on the outer periphery of the grate, in combination with the combin inner projections a b, and with the looped bar in operating the grate, substantially as at '

described.

No. 36,951.—HENRY HARPER, of Berlin, Wis.—Improvement in Gauges for Cerrical Azles.—Patent dated November 18, 1862.—This invention consists in the employment "bevel" provided near its periphery with rests for holding the respective axle arms, to tance between which is equal to the intended distance between the tracks of the opportunity. wheels of the carriage. At each end of the bevel are arranged scales having a motion at centres at said ends, and provided with a brass rule which revolves upon the said central is held in any desired position by means of a clamp and screw; the object being to be . . axis of the axle arm down just enough to make the spokes perpendicular when they downwards.

Claim.—First, the method herein described of giving the proper pitch to carriage wby means of the bevel, Fig. 1, and the scale, Fig. 2, substantially as set forth.

Second, the use of the bevel, constructed as set forth, for the purpose of giving the party of the purpose of giving the party of the purpose of giving the party of the purpose of giving the party of the purpose of giving the party of the purpose of giving the party of the purpose of giving the party of the purpose of giving the party of the purpose of giving the party of the purpose of giving the party of the purpose of giving the party of the purpose of giving the party of the purpose of giving the party of the purpose of giving the party of the purpose of giving the party of the purpose of giving the party of the party

pitch to carriage wheels, substantially in the manner above set forth.

Third, the scale, Fig. 2, when used in the manner above set forth, for the purpose of y the proper pitch to a carrriage wheel.

No. 36,952.—EBENEZER HARRINGTON, of Boston, Mass.—Improvement in Store Greet Patent dated November 18, 1862.—This invention consists in arranging beneath the co rectangular frame provided with a series of transverse and parallel bars and two shon . . . tudinal bars at the centre, from which bars a series of pins extend upward through the The said frame is also provided with trunnions at either end, which are so connected to the grate as to enable both grate and frame to be turned simultaneously and empty the states of the grate, the parts being so arranged as to impart both a longitudinal and increases. verse motion to the grate.

Claim .- An improved grate B and sifter or sliding frame C, as not only having their of pokers i i i arranged with respect to the guide bars, as described, but as having the porting trunnions de extended from the frame C and applied to the fireplace A in ma and so as to operate the said frame C and the grate relatively to each other as well as *.

respect to the fireplace, substantially as specified.

No. 36,953.—Wm. HARRIS, of Jersey City, N. J.—Improvement in Machines for Raint Tires.—Patent dated November 18, 1862.—This machine consists of a stout carriage statewithin a radial slot in the bed of the machine that it may be moved outward or and by means of a screw turned by a crank. This carriage supports two horizontal rolls, the one acting upon the upper or narrow face of the tire, and the other on the lower or broad face. A third roller is mounted vertically on the adjustable carriage, and being shaped to conform to the outer face of the tire, serves as a guide or lateral support.

Claim.—The combination and arrangement of the rollers G E and F, in the adjustable

carriage c, substantially as and for the purpose herein described.

No. 36,954.—James Jenkins, of Elizabeth, N. Y., and Henry Weissenborn, of Newark, N. J.—Improved Furnace for Roasting Ores and for other Purposes.—Patent dated November 18, 1862.—This apparatus is composed of a furnace tank at the lower part surrounded by a water casing or jacket. This casing is provided with two supply-pipes near its bottom, and two overflow pipes near its top. The upper part of the furnace consists of a feeder and a surrounding gas chamber. The lower part of the furnace rests within a water tank which being filled when the furnace is in operation furnishes an air-tight bettem to tank which, being filled when the furnace is in operation, furnishes an air-tight bottom to the furnace, and serves as a base to support the stock with which the furnace is charged.

Claim.—A furnace constructed substantially as herein specified, for the purposes herein

named, or for any other where, from its properties, it may be used.

No. 36,955.—W. W. Huse, of Brooklyn, N. Y.—Improved Method of Preparing Chewing Tobacco.—Patent dated November 18, 1862.—The nature of this invention is explained by the claim.

Claim.—In the manufacture of plug chewing tobacco, arranging the filling tobacco between two layers of filling in long troughs of the width of the intended plugs, and in that condition compacting and pressing it into a long strip of uniform thickness, substantially in the manner described.

Also, finally compressing the plugs in the cells of the long trough, provided with sliding partitions separating the several cells so that the partitions shall yield to the pressure as the

plugs are compressed, substantially as described.

No. 36,956.—W. W. Huse, of Brooklyn, N. Y.—Improvement in the Process of Stripping Tobacco Leaves.—Patent dated November 18, 1862.—The apparatus used in this process consists of a trough through which passes longitudinally a pipe communicating with any suitable steam generator. The portion of the pipe in the trough is perforated for the escape of steam into the trough, which latter is covered with a woollen cloth. This cloth forms a table upon which the tobacco leaves are placed, and the latter are thus acted upon by the steam so as to be readily stripped.

Claim.—The process of stripping tobacco leaves while under the influence of steam, sub-

stantially as and for the purpose described.

No. 36,957.—JAMES HOPKINS, of New York, N. Y.—Improvement in Metal Screens.—Patent dated November 18, 1862.—This screen is made of square wires laid parallel with each other and having their sides at right angles to the plane of the screen instead of being placed diagonally thereon, so as to produce square or parallel sided meshes of the same size all through, and preventing any substance from being wedged into the meshes at their point of intersection.

Claim.—The screen formed of square wires woven up or laid together as specified, with the sides of the said wire at right angles to the plane of the screen, for the purposes and as

specified.

No. 36,958.—Thomas Joyce, of Brooklyn, N. Y.—Improvement in Coffee Roasters.—Patent dated November 18, 1862.—This device consists of two shallow pans hinged together, and supported in a frame upon trunnions at their ends, so as to admit of being rotated

within the frame and readily opened when necessary.

Claim.—The combined coffee roaster and revolving griddle herein described, consisting of the two flat, shallow vessels B C, in combination with the trunnions and frame A, so arranged as to admit of being opened and of rotating, substantially in the manner and for the purpose above set forth.

No. 36,959.—H. K. KENYON, of Steubenville, Ohio.—Improvement in giving Rotation to Ordnance Projectiles .- Patent dated November 18, 1862 .- The forward part of the projectile consists of a series of rectangular "punches" of different sizes, decreasing from the inner punch to the outer one, and arranged so as to have the corners of one at the centre of the side of the one preceding, but not projecting over the same, for the purpose of insuring its penetration of the object struck. Upon the part of the projectile in rear of the punches are arranged four friction rollers, which are set in oblong cross-shaped recesses in the flattened parts of the projectile, the said recesses being arranged obliquely to the longitudinal axis of the projectile, and the portions which receive the journals of the rollers rising on an incline as they run back, so that the projectile, in passing from the bore of the cannon, will, by frictional contact upon the plane surface of the bore, be caused to rotate.

Clasm.—First, the specified relative arrangement of the corners of the respective sections

of the punch point of the projectile, for the purpose set forth.

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Second, constructing that part of the projectile in rear of the compound punch point win crossed or other similar shaped oblique recesses g m, when the parts m of said recesses a non an incline, in combination with sliding, rising, and descending rollers f, substantages and for the purpose set forth.

No. 36,960.—J. A. McCreary, of Brooklyn, N. Y.—Improvement in Devices for Holing Blind Slats.—Patent dated November 18, 1862.—This invention consists in the employ: 2 of a slide, which is subjected to the action of a spring, and which moves up and down a metal case attached rigidly to the slat bar. The spring slide is connected by means a rod to a staple inserted in the upper cross-bar of the frame. The lower end of the roles inserted into the spring so as to turn loosely in the same, the object being to set the same any desired inclination, and securely retain them in position.

Claim.—The arrangement of the swivel rod f, in combination with the spring shire frame A, and slat bar C, all constructed and operating substantially as and for the purpose

shown and described.

No. 36,961.—B. MELLINGER, S. MELLINGER, Jr., and J. MELLINGER, of Moun Pleasant, Pa.—Improvement in Horse Rakes.—Patent dated November 18, 1862.—This invention is designed as an improvement upon the machine patented to the said Mellinger on May 13, 1862, and it consists in the employment of a double-armed lever and consecue rods, in connexion with the axle to which the rake teeth are secured, and with a clear suspended by means of staples from the said rake teeth in such a manner that by the school field by the result of the lever, the rake teeth can be raised, and at the same time the clearer is made to be out towards the points of the teeth when the load gathered by them is to be discharged.

out towards the points of the teeth when the load gathered by them is to be discharged.

Claim.—The arrangement of the double-armed lever E, and connecting rods f k, in cobination with the axle A, rake teeth G, and clearer F, all constructed and operating as a:

for the purpose shown and described.

No. 36,962.—W. H. MILES, Jr., of Brooklyn, N. Y.—Improved Paint Brash.—Pakes dated November 18, 1862.—This invention consists in providing a shoulder in the handed the brush, beneath which the bristles expand as the handle is driven into place, for the propose of preventing the tapering end of the handle from working loose and sliding back use the brush.

Claim.—The employment of a shoulder o in the handles of paint brushes, to prevent the handle from slipping back into the brush after the same has been driven into the brush, we

specified.

No. 36,963.—W. A. PALMER, of San Francisco, Cal.—Improvement in Analyzanters for Gold and Silver.—Patent dated November 18, 1862.—At the bottom of the pan is fitted an annular plate having upon its under side a flanch extending around the edge, and forming support for the plate, and also a flange at the centre, thus forming a chamber at the base of the pan. To the under side of this chamber is attached a pipe, through which steams conveyed from any proper generator.

Claim.—In combination with an amalgamating pan A, a steam chest or chamber E, formed of a removable plate or false bottom B, provided with one or more flanches at its under a least or chamber E, formed or a removable plate or false bottom B.

substantially as and for the purpose herein set forth.

No. 36,964.—J. R. PETERS, of New York, N. Y.—Improvement in Air Engines.—Passed dated November 18, 1862.—This invention relates to that class of air engines known a 'Stirling's," in which the air is heated in two vessels connected with two opposite ends of the working cylinder, and it consists in so operating the two plungers that the one in eight heating vessel is stationary in its uppermost position, with the space below it full of heated are, while the working piston is making the stroke from the end of the cylinder in expension with that vessel, the plunger in the other heating vessel making both its upward and command stroke in the meant time, and causing the latter vessel to be filled with heated at to produce the return stroke of the working piston. The gland which is used to compress the packing in the stuffing box is made with a deep cup in its upper part for the recept of oil, and around the upper edge of this cup is secured a leather collar in close contact will the plunger rod, so as to prevent the escape of air.

Claim.—First, the operation of the plungers of the heating vessels, in connexion with the working cylinder, substantially in the manner herein shown and described, so that the plungers will alternately remain at rest at the top of the heating vessels, while the circumstantial in the circumstantial content of the circumstantial content

plunger makes a downward and an upward stroke, as set forth.

Second, the construction of the stuffing-box gland with an oil cup l and flexible colar combined substantially as herein described for the purpose set forth.

No. 36,965.—PASCAL PLANT, of Washington, D. C.—Improved Apparatus for Dischargest Turpedaes under Water.—Patent dated November 18, 1862.—This invention consists under employment of a conducting tube made to slide in a ball and socket joint fixed in the same of a vessel above the water-line, so as to allow the tube to be depressed and brought to be

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upon any object, the outer end of the tube being open on one side and curved at the end, the object being to fire rocket torpedoes under water, to destroy an enemy's vessel, or obstacles of any kind.

Claim.—The tube placed above the water-line, with its ball and socket joint, and otherwise substantially as and for the purpose described.

No. 36,966.—D. J. Powers, of Madison, Wis.—Improvement in Grain Drills.—Patent dated November 18, 1862.—In a proper position in relation to the driver's seat is a footboard suspended at each end from the frame, and attached thereto by means of screw bolts, so as to admit of being adjusted vertically, to suit the feet of the driver. The bars by which the drill teeth are borne and drawn are hinged to the front part of the frame as usual, and to the rear of the bars are hinged the drill teeth. Above this hinge is a dog extending forward to a stop, against the face of which latter the front end of the dog bears, being pressed against it by a spring which serves to hold the drill tooth in place as it moves along, but allows it to yield when meeting with an obstruction, and again causes it to return to its place when the obstruction is passed. From an eye on each drill tooth extends a cord upward to a roller extending across the frame, so that by bringing the roller into gear with the driving wheel the whole series of teeth may be raised by the forward movement of the machine. Upon a shaft extending longitudinally through the seed box are secured a series of short cylinders over the apertures in the bottom of the seed box. The faces of these cylinders are notched, and one set is arranged so as to move to and from the other, thus making a zigzag opening between them, the size of which opening may be regulated at pleasure.

Claim.—The suspended adjustable foot-board F, arranged substantially as and for the

purpose herein specified.

Also, the combined application of a spring and friction surface to sustain the drill teeth M M upon their bars H H firmly and rigidly while in operation, but so as to yield with sufficient readiness when they meet obstructions, substantially as herein specified.

Also, the roller G, arranged in combination with the operating gearing of the machine so that the drill teeth may be raised together by the automatic action of the machine itself in its forward movement without stopping or halting, substantially as herein specified.

Also, the continuous zigzag seeding apertures y y, adjustable in width, substantially as

and for the purpose herein set forth.

No. 36,967.—EDWARD PRECHT and VICTOR TOEPKEN, of New York, N. Y.—Improvement in the Manufacture and Packing of Friction Matches.—Patent dated November 18, 1862.—Antedated May 18, 1862.—This invention is explained by the claim.

Claim.—Making the match splints of thin strips of wood, in double sets or combs, those of each comb adhering together at the upper ends, substantially as and for the purposes

herein specified.

Also, packing the tips of the matches in a band of paper, which is prepared with a composition or substance on its upper edge, whereby the match tips (correspondingly prepared) are ignited on coming in contact therewith in the act of drawing out of the package, substantially as herein specified.

No. 36,968—REUBEN SHALER, of Madison, Conn.—For a Centrifugal Spring Gun.—Patent dated November 18, 1862.—This device is designed chiefly as a toy gun or as an instrument of practice in shooting. Near the forward end of the stock is secured a spring having a barrel attached at its other end. The barrel, having a bullet in it, is brought back and secured by a hook or catch, whence it is released by a trigger, and the bullet is projected by the forward motion of the barrel.

Claim.—The combination in the manner described of the stock 1, spring 6, barrel 8, and trigger 3, by which the bullet is discharged by centrifugal force, as above set forth.

No. 36,969.—Jonathan Smith, of Tiffin, Ohio.—Improvement in Grain Drills.—Patent dated November 18, 1862.—In this machine the seat frame is suspended from the under side of the main frame, so that the driver's seat may be placed low enough to enable him to see and regulate the operation of the furrow-openers as well as that of the upper part of the machine. Extending back to the foot-board of the driver's seat are the rear ends of treadles or levers, to which are attached chains extending up over grooved pulleys and around lever drums, so arranged that the whole or part of the teeth may be elevated by the driver, for the purpose of avoiding obstacles and to facilitate the turning of the machine. Combined with the treadles and lever drums are ratchet wheels and spring pawls, for the purpose of regulating the depth of penetration of the teeth in the ground, and of retaining the teeth at any desired elevation above the ground. To the under side of the seed box are applied slides, so that by moving the connecting or slide bar either to the right or left any desired number of the discharge holes may be made to remain open or closed at will.

Claim.—First. suspending the frame or bars that support the driver's seat from the under aide of the main frame of the machine, substantially as and for the purposes described.



Second, the treadles or levers arranged as described, when combined with the separate lever drums for elevating a part or all of the teeth, substantially as set forth.

Third, in combination with the treadles or levers and lever drums, the ratchet wheels u.!

spring pawls, as and for the purposes specified.

Fourth, the slide when constructed with the rectangular projections, and the man described for transverse adjustment, for the purposes and substantially as set forth.

No. 36,970.-G. S. G. SPENCE, of Salem, Mass.-Improvement in Preserving Jan art Cans.—Patent dated November 18, 1862.—This invention consists in making the coverthe jar of a convex form on its under side and projecting down, so as to enter the jar as !: up the space usually filled with air. In sealing the jar a heating iron of a form corresponding with and fitting into the upper side or concavity of the cover is used.

Claim.—Making the cover of fruit jars with a bottom projecting downward into the test

of the jar, so as entirely to exclude the air therefrom, substantially in the manner and for the

purpose set forth.

Also, the sealing iron, constructed and used substantially as set forth to aid in expelling the air as described.

No. 36,971.—JOHN TAYLOR and R. W. BROWN, of Westerly, R. I.—Improvement is the Döbereiner Hydrogen Lighter.—Patent dated November 18, 1862.—This invention onesists in the arrangement of two openings or passages leading from a channel c formed in the rear end of the nozzle, which connects with the bell or gas-generating chamber of the w One of these passages leads to the gas-generating chamber, and the other to the from of the one of these passages leads to the gas-gaterating channel, and the other to the hot."

3. which is tightly embraced by an India-rubber valve upon the end of the plunger, its latter being forced by an adjustable spring towards the base of the chamber c, thus closes the openings of both of the passages and preventing the escape of gas through the same The valve is covered with a fine bronze powder to form a metallic coating for the purpose. preventing it from adhering to the valve seat.

Claim.—First, the arrangement of the two openings el and e2, and the surrounding Lp 4.

or its equivalent, with the clastic valve G, as and for the purpose herein set forth.

Second, the employment of the adjustable spring H in combination with the above, is the purpose described.

Third, the valve herein described, composed of India-rubber and coated with fine braze powder or its equivalent, for the purpose set forth.

No. 36,972.—W. H. Towers, of New York, N. Y.—Improvement in Penholders.—Partidated November 18, 1862.—This invention consists in surrounding the lower end of a perholder with a tube composed of blotting paper or some other absorbent material in such a manner as to hold the pen and prevent the ink from soiling the fingers in writing.

Claim.—Forming said tube B of blotting paper, felt, or other absorbent material, so as to enable it to act in the double capacity of a penholder and preventive to the soiling of in

fingers of the person using it, substantially as herein set forth.

No. 36,973.—F. A. TRANT, of New Britain, Conn.—Improved Carpenter's Bench Gang. Patent dated November 18, 1862.—This gauge is formed of two or more bars fitted together in one head, so as to slide one upon the other, and provided with a tongue and groove (and being secured to the head separately by means of thumb screws placed on opposite side of the head.

Claim.—As an improved article of manufacture, a carpenter's bench gauge, viz., the imor more bars s s held in uniform position by means of tongue and groove s s', or that equivalents, in combination with a single head c and set screws d d, substantially in the manner as described.

No. 36,974.—W. B. TREADWELL, of Albany, N. Y.—Improvement in Stores.—Patent died November 18, 1862.—Attached to the outer casing above the fire-pot is a bevelled care of bearing, upon which rests the bed piece, the latter being intended to hold the fire-brick a place over the fire-pot at the discharge of the feed cylinder. Above the fire-pot is a cylinder. drical section of the supply pipe, upon which rests a funnel or hopper-shaped receiver. below this point between the supply cylinder and the casing.

Claim.—First, the bed piece F constructed as described, and operating in the manner of

Second, the combination and arrangement of the bed piece F with the fire-pot C, illuminating chamber D, and supply chamber G H, substantially as herein set forth.

Third, the supply cylinder G H, constructed and operating substantially as herein #

No. 36,975.—G. W. WILSON, of Galesburg, Ill.—Improvement in the Mode of Tightened Followers to Mill Spindles.—Patent dated November 18, 1862.—Between the bush and in

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lower is placed a doubly curved spring, the upper end of which passes over the upper end of the bush, and the lower end being furnished with a nut and screw, so that by turning up the latter the spring is drawn down into the wedge-shaped cavity, by means of which the necessity of removing the stone for the purpose of tightening or loosening the followers is

Claim.—The re-curved spring A, constructed as described, in combination with an adjusting nut E and follower B, when arranged and operated as and for the purposes set forth.

No. 36,976.—ABRAM ACKER, of Ramapo, N. Y., assignor to J. S. WANAMAKER & Co., of Hohokas, N. J.—Improvement in Spring Butt Hinges.—Patent dated November 18, 1862.—The enlarged cap used in this invention consists of a cylindrical head perforated around its periphery to receive a lever, which is used to adjust the cap in regulating or reversing the action of the spring. Under the head is a toothed neck, which serves to receive and hold the upper end of the spring, and also to receive the coupling pin, which connects the cap and the spring with the upper portion of the hinge. By turning the cap around and securing it with the pin between the teeth of the neck, the tension of the spring may be increased or diminished as desired.

Ctaim.—The device for adjusting the spring c, consisting of the enlarged cap a2, reduced toothed or perforated portion g, pin i, and shoulder p, arranged as and for the purposes herein

set forth.

No. 36,977.-T. W. WISNER, of Osceola, Mich.-Improvement in Trying Squares.-Patent dated November 18, 1862.—This invention consists in the application of an adjustable metallic face plate to the stock of a trying square, so that by means of a screw passing through the lower end of the stock and into the face plate, the latter may be adjusted to the proper angle in relation to the blade.

Claim.—The adjustable face plate C applied to the stock B of the square, substantially as

shown, and operated by the screw D, or its equivalent, for the purpose specified.

No. 36,978.—Benjamin Horn, of Flemington, N. J., assignor to Himself and J. P. Rit-TENHOUSE, of the same place.—Improved Washing Machine.—Patent dated November 18, 1862.—Upon the ends of a shaft supported by uprights attached to the sides of the tub are hung rods extending down nearly to the ground, and connected together by a tie at their lower ends. From these rods is suspended a box for holding any required weight to be applied to the squeezing rollers. Within the box is a series of corrugated rollers working upon a corrugated rubber. Beneath the tub is arranged a treadle, which is connected with the rods that sustain the weighted box, so that the operator may, upon pressing the treadle with his foot, cause the rollers to rise for the insertion of clothes into the tub or their removal therefrom.

Claim.—First, the combination and arrangement of the rods K and weight box L with the shaft C, arms E, rocking pieces F, and fluted rollers G, substantially as and for the pur-

pose herein set forth.

Second, the arrangement of inclines o and b, brake I, shaft C, rollers G, and treadle M, substantially as and for the purpose herein described.

No. 36,979.—C. S. HUTCHINSON, of Burlington, N. J., assignor to W. T. HOPKINS, of the same place.—Improvement in Hooped Skirts.—Patent dated November 18, 1862.—This nvention consists in the employment of a pad and straps connected to the waist belt and ront tapes of a hooped skirt, so arranged that the rear part of the skirt may retain its lesired form, and the clothing on the outside of the same may be removed from contact with he waist and sustained by the pad, for the purpose of relieving the wearer from the inconrenience of the weight sustained by the waist belt alone.

Claim.—The pad H and straps G and G', or the equivalents to the same, when connected
the waist belt and front tapes B and B', and arranged for application to the wearer's per-

on, substantially as set forth.

No. 36,980.-T. W. IRVIN, of Indianapolis, Ind., assignor to W. C. Holmes and DWARD DUNN, both of Marion county, Ind. - Improvement in Grain Separators. - Patent ated November 18, 1862.—The tube into which the grain is fed, and through which the raught is made to pass, is formed with two offsets, making three sections, and at the angle r shoulders formed by the offsets are arranged a series of valves and dampers for regulating no amount of air entering the tube and preventing a too large accumulation of grain. The rain is fed to the tube from a diverging corrugated hopper.

Claim.—The combination of the corrugated hopper K with the angular tube F E D and

alve H H O a and b, all arranged and operating substantially as and for the purpose shown

ad described.

No. 36,981.—John McKinnell, of London, England, assignor to John Hyslop, of Ten aint, Judes's square, Bradford.—Improvement in Ventilating Apparatus.—Patent dated overnber 18, 1862.—This apparatus consists essentially of two tubes arranged concentrically ith each other and opening at their lower ends into the space or apartment to be ventilated. These tubes communicate with the external atmosphere at different levels, the viriated ar rising up the central tube and passing off at the higher level, whilst the fresh air cuters to annular passage between the inner and outer tubes at a lower level and descends into the space or apartment below. Both passages are provided with suitable valvular mechanism for regulating the currents, that of the outer passage at the same time serving to defice i downward current of fresh air and spread it out horizontally so as to prevent partial draugts.

Claim.—First, a ventilator for apartments or other enclosed spaces, composed of two contrict tubes or passages opening below in the ceiling or top of the apartment or tooks. space and communicating with the external atmosphere at different levels, when two connexion with a deflecting flange I, (adjustable or otherwise,) to distribute the pure a within the apartment, substantially as set forth.

Second, the employment or use, in the ventilator described, of an adjustable flange or a nular plate, which serves to close the passage either wholly or partially, when required and which when open acts as a deflector to deflect and spread out the current in a horizontal or rection, as hereinbefore described.

Third, a ventilator for apartments, composed of two concentric tubes or passages opening b clow in the ceiling or top of the apartment or enclosed space and communicating with the external air at different levels, when used in combination with a horizontal tube of tubes Q. for the ingress of pure air, substantially as and for the purpose set forth.

No. 36,982.—Daniel Sherwood, of Lowell, Mass., assignor to Himself and E. P. Wood, of the same place.—Improved Wire-Gauze Strainer.—Patent dated November 18, 1862.—113 invention is explained by the claim. The inventor says, the great advantage derived from the claim. corrugated or twilled wire cloth is, that it can be formed up readily between the dies, but clastic, and the interstices for the passage of the liquid being perfectly preserved.

Claim.—As an improved article of manufacture, a strainer for liquids made of corugical or twilled wire cloth, substantially as described.

No. 36,983.—Sidney Squires, of Boston, Mass., assignor to C. B. Boyce & Co., of the same place.—Improved Clothes-Wringing Machine.—Patent dated November 18, 1862.—The invention consists in so arranging the parts by which the wringer is secured to the wash-the in connexion with the springs by which the rolls are pressed together, that the said springs shall only be brought into play when the wringer is secured to the tub, and when the sens: which confine it to the tub are loosened the springs shall be thrown out of play, so that its

rolls are not pressed together except when in use.

Claim.—The combination of the levers L and H, constructed in the manner substants J as described, for the purpose specified.

No. 36,984.—S. W. WOOD, of Cornwall, N. Y.—Improvement in Revolving Fire-cras.— Patent dated November 18, 1862.—This invention consists in hollowing out or cupping 1 :tionary or fixed breech secured to or forming part of the frame or stock of a pistol, into with the rear end of a revolving cylinder is received and which encases the heads of the carriers Within the hollowed breech is a stationary inclined plane which serves to relieve the chanters of the empty cases, and is so constructed that when the cylinder revolves with the gate closethe cartridges will pass over the inclined plane, and again be forced to their places in the chambers when in position to be discharged.

The hammer is operated and the cylinder revolved by means of a forked spring pawl in 🗷 piece, pivoted to and operated by the trigger, one of the forks or prongs serving as a serie to allow its end to pass over the notches on the end of the cylinder in revolving it, so as to present the chambers with their cartridges in succession to the barrel, and to permit the other end of the fork taking into the notches in the face of the hammer, so as to be forced thereber in discharging the piece.

Claim.—First, hollowing or cupping the stationary or fixed breech secured to or forming part of the frame or stock of a revolving pistol, and receiving and encasing the end of its cylinder and heads of the cartridges, having a fixed or stationary inclined plane, the said arranged and constructed as herein described.

Second, in a self-cocking and discharging pistol, revolving the cylinder and operating the hammer by means of a forked spring pawl in one piece, arranged as set forth.

No. 36,985 .- J. E. ATWOOD, of Bucksport, Maine - Improvement in Steam-Engines-Patent dated November 25, 1862.—The object of this invention is the construction of a stars engine which will generate steam no faster than is necessary for use, and by which the necessary of a boiler, as also of a steam chest, is dispensed with. Reference to the specification 12-

drawings will be necessary for an understanding of its construction and operation.

Claim.—First, the combination of the generator S S with the cylinder A, when constructed

substantially as described for the purpose set forth.

Second, the combination and arrangement of cylinders A with cylinders z z, steam general 8 S, reservoir F F, and levers J J, operating in the manner and for the purpose substantial. as set forth.

Third, the combination of pump E, spiral spring C C, and eccentric D D, in the manner and for the purpose substantially as described.

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No. 36,986.-8. S. BARTLETT, of Providence, R. I.-Improvement in Bolsters for Spinning Frames. - Patent dated November 25, 1862. - This invention consists in cutting a left-handed screw-thread in the bottom part of the bolster by means of a gear, or wheel, in such a manner as to leave the lower part of the bearing surface of the bolster perfectly smooth and of the same size as the upper part, and without disturbing the bearing of the spindle; the object of the screw thread being to prevent the oil from running out at the bottom of the bolster.

Claim.—An improved bolster in which the screw-thread is cut by a gear or wheel in such a manner as not to vary the internal diameter of the bearing surface of the bolster, but so as

to leave the diameter the same throughout as it was before the screw-thread was cut.

No. 36,987.—J. L. Bates, of Providence, R. I.—Improvement in Packing for Steam Engines.—Patent dated November 25, 1862.—This packing is composed of a fillet or strip of cork upon which is placed first an open braiding of twine, over which is a covering composed of twine covered with soft cotton or other fibrous material.

Claim.—First, the combination of the fillet or strip of cork A, and the covering b, composed of twine covered with soft cotton or other soft fibrous material, substantially as herein

Second, the braiding c, applied in combination with the fillet or strip A and covering b, substantially as and for the purpose herein specified.

No. 36,988.—EDWARD BEANES, of Havana, Cuba.—Improvement in the Refining and Manufacture of Sugar.—Patent dated November 25, 1862.—This invention consists in the use of liquid ammonia instead of lime-water or milk of lime, for neutralizing the acid developed in the process of refining sugar.

Claim.—The use of ammonia for neutralizing the acid developed in the manufacture and

refining of sugar, substantially as herein described.

No. 36,989.—N. A. BOYNTON, of New York, N. Y.—Improvement in Heaters.—Patent dated November 25, 1862.—The magazine consists of a cylinder placed upon the fire-pot, and is surrounded by a radiating chamber but not in contact with it, thus leaving a space between the two. The radiating chamber extends from the top of the magazine to near the top of the Attached to the upper part of the fire-pot are a series of flues communicating at their upper ends with the radiating chamber.

Claim.—First, the open air space a, between the magazine C and the radiator G.

Second, having the radiating chamber G made to extend from the top of the magazine nearly to the top of the fire-pot, in combination with the air space a, as herein shown and described, so as to enclose or nearly enclose the magazine, but leaving an open space between the base of the radiator and the fire-pot for the entrance of air and its contact with the fire-pot, with room for the rise and discharge of the air through the space a, all as set forth.

Third, the combination of the radiator G, made as above described, and the air space a, with

the magazine C, the fire-pot A, and the flues F, in the manner herein shown and described.

No. 36,990.—J. S. BROOKS, of Rochester, N. Y.—Improvement in Sad-iron Heaters.—Patent dated November 25, 1862.—This device consists of an oblong pan which is intended to occupy the space of the two front holes of a cooking range or stove, when the division plate is removed, and is of sufficient depth to admit of the sad-irons being placed below the cover. The cover is provided with slots to admit the handles to slide within them, and the pan is supported upon the stove by means of a flange on its upper outer edge.

Claim.—The sad-iron heater constructed as shown and described, and forming a new article

of manufacture.

No. 36,991.—O. L. Brown, of Boston, Mass.—Improvement in Machines for Setting Up Types.—Patent dated November 25, 1862.—This invention consists in placing the type in a case formed of cells of such a width as to admit of a single row of type, and using in connexion therewith a sliding stick, together with a mechanism arranged in such a manner that the atick may be shoved along below the case, and brought in a proper relative position with any of the rows of type in the case, the type to be discharged from the case and properly deposited in the stick.

Claim.—First, the employment or use of a type case A, provided with a series of type cells e, in combination with a sliding stick C, provided with a plate H, plunger t and slide S, so arranged that the stick may be moved along, and its space n adjusted in line with any of the type cells a in the case A, and the type discharged from the case into the stick, substantially

as herein set forth.

Second, operating the slide S, and plunger t, through the medium of the lever P, provided with a spring Q, a pawl b' and a lever T; provided with a notch a', and having the plunger rod U attached to its upper end, all arranged as shown, whereby the types are forced upward and out from the cells a of the case A, and into the space n of the stick, as set forth.

Third, providing the stick C with an adjustable side a*, and an adjustable end plate I', in connexion with a self-adjustable bar K, placed in the space n, and secured in position by the pawl O and rack o, whereby the stick may be adapted for receiving lines of types of greater

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or less length and width, as may be required, and the lines of type when "set up" fored into the stick, as herein described.

No. 36,992.—A. H. CHAPLIN, of Adrian, Mich.—Improvement in Horse Rakes.—Patent dated November 25, 1862.—This invention consists in attaching to the shafts of an ordinar revolving horse rake, two yokes provided with slots through which pass bolts by which there are secured to the shafts in such a manner that the latter can be adjusted to any designing. To the rear end of the handles are bolted springs, which, as the handle is raised strike the teeth near their junction with the beam, and thus press down the points to the ground, whereby the head is caused to revolve.

Claim.—The yokes G G and springs Q Q, arranged to work in joint operation with handles D D, shafts H H, and teeth C C, as above described and set forth.

No. 36,993.—ALINZOR CLARK, of Saint Johnsville, N. Y.—Improvement in Apparatus for Cutting Tined Implements from Metal Plates.—Patent dated November 25, 1862.—This machine is constructed of a pair of dies to cut the blanks for two forks, rakes, or tined tooks, from a piece of steel plate, in such a manner that the metal cut from between the tines of each, forms the tines of the other, thereby enabling the forks to be made without any material wasse of stock. The dies for cutting out the blanks are constructed of a series of plates at up edgewise with interposed packing plates, and secured together in box-like stocks by means of set screws.

Claim.—The construction of each die of a series of cutting plates d d e or d' d' e', and interposed packing plates ff or f'f', the whole secured together in a box or stock B or B', by starcews g g or g', or their equivalents, substantially as herein set forth.

No. 36,994.—J. E. EARLE, of New Haven, Conn., assignor to Himself and George & Lester, of same place.—Improved Clothes Frame.—Patent dated November 25, 1862.—The device consists of a bracket to be secured to a wall or other convenient place, and provided with a perpendicular spindle, upon which are placed two or more sockets, one above the other, and so arranged as to turn freely on the spindle. In each socket is placed a bar, upon which clothes or towels may be hung.

socket is placed a bar, upon which clothes or towels may be hung.

Claim.—The combination of bracket A and spindle D with the sockets F and bars G, sestructed and operating in the manner and for the purpose substantially as described.

No. 36,995.—PERRY DICKSON, of Utica, Minn.—Improvement in Propellers for Last Conveyance.—Patent dated November 25, 1862.—At the rear of a wheeled vehicle or sk-list arranged a rock shaft, to each end of which is attached an arm provided with a pointed she. The rock bar is oscillated by the piston rod of the engine through the medium of a cross-head, a slide, and pendant, and horizontal rods. The slide is so arranged as to be capable of being adjusted higher or lower upon the pendant rod, and thus regulates the length of stroke of the rock bar, so that in ascending eminences the speed may be decreased and a proportionate in crease of power obtained.

Claim.—The applying of the power of the engine to the rod I of the rock bar J, through the medium of the slide G, pendant rod F, and cross-head E, the slide being adjusted on an rod F, and all arranged substantially as and for the purpose herein set forth.

No. 36,996.—Elbridge Gale, of Kendall, Ill.—Improvement in Portable Fences.—Paker dated November 25, 1862.—This invention consists in constructing the wire fence in sections so looped or jointed together as to be easily folded for transportation. The wires are secured to standards set obliquely to each other in the ground or upon a frame prepared for the purpose.

Claim.—A wire fence constructed in sections, with the posts set obliquely and braced addescribed, the whole constructed and arranged in the manner and for the purpose as set inthe

No. 36,997.—A. HEAVENER, of Plano, Ill.—Improvement in Water-proof Threshold.—Patent dated November 25, 1862.—Piaced over a groove in the metallic threshold is a support of metal or a valve curved on its front edge to cover the circular portion of the threshold. Under the valve is also a plate curved at its edge, so as to form, with the valve and curved portion of the threshold, a hinge. Secured to the valve is a spring which, when the door closed, causes the valve to turn up into a cavity in the bottom of the door, where it is hall against a plate on the door, the valve lying flat when the door is opened.

Claim.—The valve G with hinge I and spring J, as described; also the groove or channel

K, as described, and for the purpose specified.

No. 36,998.—C. B. Ingersoll, of Morris, Ill.—Improvement in Cultivators.—Patent dard November 25, 1862.—This invention relates to that class of cultivators which are designed N cultivate both sides of the rows at once, and made high enough to pass over the great corn; and it consists in so constructing and arranging the doubletree with the draught pow and other parts as to transfer the draught from the upper part of the machine to or below the centre, so that a more even and easy draught may be obtained.

Claim.—The combination and arrangement of the draught pole D, the doubletree A, the beams E, the cross-beam F, the standards G, the supports C, and the whiffletrees B, when all are constructed, arranged, and operating substantially as and for the purposes herein delineated and set forth.

No. 33,999 .- WILLIAM JONES, of Wilson, Minn. - Improvement in Ploughs. - Patent dated November 25, 1362.—This plough is constructed with a double mould board, provided with the proper shares, land sides, and standards, the latter being attached, at their upper ends, to a semicircular plate, which is secured to the under side of the beam by a pivot bolt and catch, operated by a lever, so that the mould board may be readily turned and secured to

either side of the boam to form a right or left hand plough, as may be desired.

Claim.—The combination of the mould boards C C, shares F F, land sides D D, and standards E E G, with the plate H, guide plate J, lever K, and beam A, all in the manner herein

shown and described.

No. 37,000.—T. B. KELLY, of Harmonsburg, Pa., and L. W. KELLY, of Brunswick, Ohio.— Improvement in Blacksmiths' Tools.—Patent dated November 25, 1862.—This instrument is designed for paring the hoofs of horses before shoeing, and it consists of a metallic handle or stock flattened out near one end. In this flattened part is a slot, through which passes a square-headed screw bolt, which latter serves to secure a knife blade to the flattened portion. Beyond the flattened portion the handle or stock is curved, and to the same is hinged a claw, which is designed to catch under the hoof and serve as a fulcrum in operating the knife.

Claim.—The construction of the handle A A with the slot therein at F F, and claw B attached thereto by the joint C in combination with the knife blade E, when the same are con-

structed as described and for the purpose set forth, and in the aforesaid combination.

No. 37,001.—Lewis Kolloff, of Brooklyn, N. Y. —Improvement in Devices for Closing Gates.—Patent dated November 25, 1862.—To the post which supports the gate is attached an arm provided with a socket or stop, and to the gate frame is attached a projection provided with a pointed screw. In the arm on the post is then inserted the pointed end of a bar, while the other end receives the screw of the projecting lug on the gate, so that the weight of the gate acting upon the bar serves to close the gate after being opened.

Claim. In combination with a gate or door the socket on the jamb or post A, the bar G, and the adjusting mechanism b c, substantially as described and for the purpose set forth.

No. 37,002.—E. V. LAWRENCE, of Brooklyn, N. Y.—Improvement in Rotary Disk Measures.—Patent dated November 25, 1862.—This invention consists in the combination with the rotary disk, and with the cog-wheels which transmit the motion of said disk to the index hands, of a case of known width, which nearly encloses the whole measure, and which is provided with a pointer in such a manner that the disk can be started accurately from any desired point. To the periphery of the rotary disk is applied a strip of India-rubber or leather for the purpose of preventing the disk from slipping while being carried over the surface to be measured. Applied to the case which encloses the measuring disk and wheels is a pointed radius bar in combination with a suitable scale marked on the dial-plate of the case in such a manner that, by inserting the point of the radius bar in the point of the angle, and carrying the disk over the arc measuring said angle, the number of degrees containing the arc, and also its length, may be readily determined. A compass is inserted into the handle, which latter serves to carry the disk over the surface to be measured, so that the direction in which the disk moves can be observed at every point.

Claim.—First, the arrangement of the cylindrical case B with its pointer a' in combination with the rotary disk A, wheels b b' c c' d d', and index hands C D, all constructed and operating in the manner and for the purpose shown and described.

Second, the application of a strip f of India-rubber or other suitable material to the edge of

the rotary disk A, when said disk is used as and for the purpose set forth.

Third, the arrangement of the radius bar E with the point g in combination with the case B carrying the measuring disk, wheels, and indices, all constructed and operating substantially as and for the purpose described.

Fourth, the use of a compass in combination with the handle F of the case B, as and for

the purpose specified.

No. 37,003.—HENRY LOEWENBERG, of New York, N. Y.—Improvement in Hoop Skirts.—Patent dated November 25, 1862.—The body of the skirt is made of arcs or parts only of hoops, so arranged as to leave intervals or spaces between the arc of each range, so as to enable the skirt to readily fold together under a person while in a sitting position.

Claim.—An improved hoop skirt having its body made with arcs or parts of hoops, instead of entire hoops, arranged in manner or with reference to each other and supported by bands,

elastic or otherwise, so as to operate substantially as specified.

No. 37,004.—T. J. MAYALL, of Roxbury, Mass.—Improvement in Revolving Fire-arms.—Patent dated November 25, 1862.—The nature and object of this invention will be understood from the claim.

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Claim.—In fire-arms of otherwise ordinary construction and operation, the employment of changeable breeches or breech sections adapted for reception of different kinds of ammuniting in combination with a hammer, so constructed and arranged in relation to the said breed or breech sections as to strike, when operated, both the percussion cap and the head of the solid cartridge in the proper position for causing the ignition of either charge used, as the use may be.

No. 37,005.—WILLIAM NEVINS, of Irving, N. Y.—Improvement in Cultivators.—Patentd. d. November 25, 1862.—Upon the sides of the central beam are placed wings provided at teeth on their under surface and secured at their forward ends by hinges, and at the rear of over-lapping bars rendered adjustable by means of holes and a bolt. On the upper surface of the wings is a brace attached at each end by a bolt passing through one of a series of hos in the wings, by which means the latter may be set to any desired angle to pass between the rows of plants.

the rows of plants.

Claim.—The rigid angular wings C C connected with the beam A, and made adjusted by means of the brace bar D, eye bolts dd, and adjusting holes ff, or their equivalent derives, the whole arranged, combined, and operating substantially as and for the purposes been

set forth.

No. 37,006.—DEXTER PETTENGILL, of Delhi, N. Y.—Improved Slide for Breat Name for Harness.—Patent dated November 25, 1862.—This device consists of a metallic said attached to the breast strap of a harness for the purpose of preventing the said snap from being worn by the ring which is attached to the neck yoke or pole chain.

Claim.—The slide and its application to the breast straps of harness, in the manner and

for the purposes set forth in the above specification.

No. 37,007.—W. B. Rhoads, of South Dedham, Mass.—Improved Wringing Machine—Patent dated November 25, 1862.—Upon the outer side of the upper end of each standards hinged a spring extending across the machine and catching at its opposite end undernoteds on a plate upon the opposite standard. These springs bear upon short pillars which reside the journals of the upper rollers, and thus serve to regulate the pressure upon the advollers. The machine is attached to the tub by means of a casting formed with three profits in connexion with a retaining nut and screw.

Claim.-First, lever springs as means for producing pressure on and allowing yield of the

moving roller of wringing machines, substantially as set forth.

Second, the three-pronged device $m \ m'$ with the shouldered screw J, nut S, and will; ing machine standards AA, substantially as and for the purpose set forth.

No. 37,008.—J. M. RILEY, of Newark, N. J.—Improved Furniture Caster.—Patent dated November 25, 1862.—This invention consists in the employment of an anti-friction band or collar placed on the arbor of the caster and fitted within the tube of the same at a pill between the top of the fork in which the roller is placed and the spring or fastening which secures the arbor in the tube. The said spring consists of a piece of steel fitted within recess in the arbor near its upper end.

Claim.—The band or collar D when applied to the arbor B at the junction of the fort C, and used in combination with a spring E or other fastening placed between the band of collar D and the upper end, bearing, or centre a' of the arbor, as herein set forth.

No. 37,009.—CYRUS ROBERTS, of Three Rivers, Mich.—Improvement in Cultivators—Patent dated November 25, 1862.—This invention relates to that class of cultivators which the wheels are mounted on a crank axle, so that the machine may be raised and lowered, and it consists in combining with the driver's seat both a foot and hand level, a arranged that the driver may from his seat readily grasp the one and bear upon the other, and that by means of his own weight the machine may be readily raised when desirable.

The side pieces of the frame terminate just at the rear of the wheels, and have secured to them removable projecting arms to which the outer feet or teeth are attached, and so arms that their distance apart can be easily regulated and the teeth be made to run in the trace of

the wheels.

Claim.—First, the combination of a foot lever, hand lever and crank axle with a driver sent, when arranged for joint operation, substantially in the manner described for the purposet forth.

Second, the combination of the hind feet K with the removable projecting arms K. $w^{k, a}$ arranged and operating substantially as and for the purposes described.

No. 36,010.—Cyrus Roberts, of Three Rivers, Mich.—Improvement in Cultivators—Patent dated November 25, 1862.—This invention consists in mounting the feet, to what is teeth are attached, in a frame having a lateral sliding movement in combination with the chains attached to a fixed point on the main frame of the machine, so that the feet may always kept parallel to the same plane without regard to their lateral play.

The sliding frame is made to move on a transverse rod by means of a lever attached to be

frame and extending back so as to be operated by the driver's foots by

Claim .- First, mounting the feet in a frame having a lateral sliding movement, substantially as described, in combination with stay chains attached at one end to the feet and at the other to a fixed point on the main frame, as set forth, for the purpose of keeping the feet always in the same plane relative to the frame or to the path of the machine, notwithstanding said lateral movements.

Second, the combination of the rod G', sliding frame g, and lever g3, when arranged and operating substantially as and for the purpose described.

No. 37,011.—EBEN A. SAWYER and J. B. NICHOLS, of Portland, Maine.—Improved Apparatus for Reefing Topsails and Courses of Ships.—Patent dated November 25, 1862.—This invention consists of an arrangement of looped "spilling" lines running down from the topmast cross-tree through a jackstay of the topsail yard, and then behind and through the topsail or close reef thereof, and then up in front of the topsail to the topmast cross-tree, so that when the topsail yard is lowered away, the wind is caused to "spill" out of the topsail, and the said sail placed in a condition for being conveniently reefed from the deck.

Attached to the topsail yard or to the fore or main yard are a series of brail lines running down in front of and through the sail, to and through a series of blocks, and thence to the deck, so that the topsail may be rected simultaneously with the lowering of the yard from

the deck without the necessity of employing a rolling yard or a double top-sail yard.

Claim.—First, running the spilling lines II through reef band b, and through the topsail G at points near the topmast B or centre of the sail G, and extending their ends in front and in rear of the sail, up to the cross-tree I, substantially in the manner and for the purpose

Second, providing the blocks g on the yards of topsails and courses and arranged brail lines J J to pass independently of one another from the top of the yards down in front of the sails, through the sails, up behind the sails, over the blocks g, and down to the deck, in the manner and for the purpose described.

Third, the arrangement together on the topsail of the spilling lines and brail lines, in the manner and for the purposes described.

No. 37,012.—A. B. SPROUT, of Hughesville, Pa.—Improvement in Horse Rakes.—Patent dated November 25, 1862.—At the rear of the axle and parallel with the same is a bar provided with a series of metal loops or guides through which the curved teeth pass. The teeth are attached at their inner ends to hubs placed loosely on a shaft J that is connected at its ends to arms attached to the guide bar.

Parallel with the guide bar is a bar L which rests upon the teeth, and is provided with a cight at each end. The said bar is connected by arms to the shaft J, the arms being fitted weight at each end. loosely on the shaft and passed through eyebolts in the bar L, which is provided with clamp nuts, so that the bar may be made to rest upon the teeth at any distance from the shaft, and thus hold them down with any required force to adapt them to work with light or heavy hay.

The guide bar is turned by means of a lever so as to raise the teeth in a curved path back-

ward and upward, and thus readily disengage them from the hay.

*Claim.—First, securing the teeth H in position by means of the fulcrum bar F, connected by the arms K K to the shaft J, as herein shown and described.

Second, poising or balancing the teeth H near the centre of the same upon a fulcrum bar F, hinged to the main frame in the restr of the shaft J and axle A, substantially as set forth, so as to adapt the teeth to be more readily raised by the lever M.

Third, securing the bar L adjustably upon the arms K, so that the said bar may be set in

or out, in order to adapt the rake to work with light or heavy hay.

Fourth, providing the bar L with the removable weight b, substantially as and for the purpose set forth.

No. 37,013.—O. G. STILLMAN, of Fabius, N. Y.—Improved Means of Affixing Defensive Armor Plates to Marine Batteries.—Patent dated November 25, 1862.—To the sides of a vessel are bolted a series of ribs provided with grooves on their upper and lower edges, leaving an outer projection. Fitting upon these ribs is a series of plates grooved also on their upper and lower edges, so as to fit upon the ribs and present outwardly a smooth surface and entirely concealing the ribs

Ctaim. - Combining any desired number of groove-edged casing plates a a with each other fitted with the exposed surfaces of a vessel by the aid of a series of grooved-edged and con-called ribs b b and the requisite number of stay-bolts, all substantially as herein set forth.

No. 37,014.—N. F. Stone, of Athens, Ill.—Improvement in Machines for Gumming Sizers.—Patent dated November 25, 1862.—This invention relates to a saw-gumming device of that class in which rotary cutters are employed. The stock of the machine is made of 4-21-1 metal, and is formed of two cheek-pieces, one of which has a shank provided with a nut

its lower end, through which passes a feed screw, the latter being parallel with the shank.

Detween the front sides of the check-pieces and also between guides is fitted a frame D,

ich is allowed to work freely up and down, and the upper end of the head screw is conrected to the lower end of the frame, so that the latter may be readily raised and lowered.

Through the said frame passes a horizontal shaft provided with a cutter formed of a said of teeth upon a cylinder. The bearings of this shaft are fitted in recesses in the frame, while they are retained by caps which work in contact with the front sides of the cheek-piones a that the bearings of the shaft are retained in proper position and the shaft prevented from having any play.

having any play.

Claim.—The stock A formed of the two check-pieces a a', set screw C and shank b in a bination with the frame D, provided with the rotary cutter F and the feed screw B, particularly through a nut c on shank b and fitting in the frame D, all arranged as and for the pure

herein set forth.

Further, the particular manner of attaching the frame D to the stock A, to wit by have the caps k k of the bearings i i of the cutter-shaft E bear against the front sides of the cheap pieces a a', and having the front side of the framework within the guides f f h h formed the ends of arms e e g connected with the upper and lower ends of the cheek-pieces h and for the purpose set forth.

No. 37,015.—ORIN SWEET and M. E. HICKS, of Providence, R. I.—Improvement in Packing for Rotary Pumps.—Patent dated November 25, 1862.—This invention consists in inerting two rings of bronze-metal into the head of the engine, where they are made to fit to and are attached to cog-wheels which work upon threads cut upon the hubs. The cog-whord are turned in opposite directions by means of power applied to a small pinion gening also one of the cog-wheels.

Claim.—The insertion of these bronze-metal rings into the engine head, and the pecular mode, by means of the cog-wheels, of adjusting the said rings, which serve as a packing it the pumps or engines, producing the effect of keeping the pumps or engines water-tight.

No. 37,016.—C. R. TUTTLE, of New Brighton, Pa.—Improvement in Charms.—Patch dated November 25, 1862.—In this churn the upper end of the central dash-rod is support at a point midway between the pinion wheels in a box which is furnished on two opposite sides with dovetailed or wedge-shaped projections adapted to fit corresponding groove to the metallic support or bracket, and thereby to hold the dash-rods properly in position of their pinion wheels to gear into the main driving gear wheel, and also to admit of their resolutions. One of the dashers is supported by a screw clamp upon two rods, which laws are secured at their ends in the under and upper sides of a pinion wheel and collar respectively, so that the dasher may be adjusted higher or lower within the cream vessel, as my be desired.

Claim.—First, the box H, provided with dovetail or wedge-shaped projections c c'. adaptet to fit corresponding mortises in a metallic support or bracket F, when combined mi

arranged to operate in the manner and for the purpose specified.

Second, the wing or dasher K, and clamp \hat{m} , provided with set screw m, in combinative with the rope g g, when arranged to operate in the manner and for the purpose specified.

No. 37,017.—Daniel Treadwell, of Cambridge, Mass.—Improvement in Devices for Firing Cannon.—Patent dated November 25, 1862.—In the portion of the breech of the run which contains the touch-hole or vent is screwed a steel plug through which the vent is been and extending to the inner surface of the gun. The upper part of the vent is enlarged form a recess into which the priming cap is placed. In connexion with the above is used a "set" or plug, which serves both as a vent stopper and a striker for igniting the prime. It is attached to a set stock or lever which is jointed at one end to a stud that is served into the gun, and is held down at the other end against the discharge of the gun by a burner steel disk having a segmental cut-off at one side and rotating upon a steel bolt. In the vent is placed a fulminating primer, provided with a casing of thin copper or other sulation material, that by its expansion against the sides of the recess or vent closes the joint to vent the escape of the gas, the primer being ignited by a blow applied to the exterior of the set or plug.

set or plug.

**Claim.—The employment, in combination with the vent of a gun, of a recess or receptar."

upon the exterior thereof for containing a primer, and a vent stopper for closing the sale, and a primer with an expanding case which serves as a packing to close the join and primer with an expanding case which serves as a packing to close the join and primer.

vent the escape of the gas, substantially as described.

No. 37,018.—S. H. Titus, of St. Louis, Mo.—Improved Coating for Oil Barrels and Casks.—Patent dated November 25, 1862.—This invention consists in the employment of a mixture of sulphuric or other acid, in which is dissolved a proper portion of glue, appled a coating to the interior of wooden casks or other vessels for containing petroleum oil.

Claim.—The solution of gelatine compounded substantially as specified, and its application to the interior of casks and other vessels, in the manner and for the purpose substantial.

as described.

No. 37,019.—L. B. WATERMAN, of Chicago, Ill.—Improvement in Caltirators.—Pakel dated November 25, 1862.—This invention consists in so constructing the frame as to admit of widening the space between the two lower wings so as to avoid breaking down the hard

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when the latter are not in line. The ploughs are raised by means of levers operated by the driver's feet in connexion with chains passing over pulleys and attached to the lower frame. At each end of the axle is a grooved pendant which is fitted to slide in a corresponding upright, by means of which the axle may be raised and lowered, the same being secured in position by a set screw. The rear ends of the frame are connected by an adjustable bow which may be raised or lowered as circumstances require.

Claim.—First, the peculiar arrangement of the beams J K M and the bar L, in combination with the upper framework, when operating substantially as described and for the pur-

poses specified.

Second, the arrangement of the lever I, the chain h, and the pulley II, when the same are used in connexion or combination with the grooved axle attachment E and the slide F, the whole being arranged and operating as and for the purposes set forth.

Third, the adjustable bow G, when arranged with the bar J, as and for the purposes set

forth and delineated.

No. 37,020.—L. W. WILLIAMS, of Nevada, Cal.—Improvement in Quartz Crushers.—Patent dated November 25, 1802.—This invention consists in constructing the inside bottom of circular grinding beds, in which partially reduced quartz rock is to be ground, of a series of inclined or curved surfaces over and in contact with which are made to pass a series of segmental grinders under pressure of springs placed over them, the grinders being attached to levers in such a manner as to admit of their being alternately raised and lowered.

Claim.—The segmentary grinders G G G G, or their equivalent, in combination with the inclined or inclined curved surfaces I I I, operating substantially in the manner and for the

purposes hereinbefore set forth.

Also, the springs SSSS, or their equivalent, in combination with the grinders GGGG, and the inclined or inclined curved surfaces III, the whole operating substantially in the manner and for the purposes hereinbefore described.

No. 37,021.—John Williston, of Vallejo, Cal.—Improvement in Hose Coupling.—Pat ent dated November 25, 1862.—This device consists of two cylindrical metallic sections, on one of which are two ribs, provided with projecting ends or lugs, which fit in corresponding recesses in the other section. Surrounding the recessed section is a tightening ring provided with two inclined grooves or channels on its inner surface for the passage of the projecting lugs, and formed with inclined edges, so that by inserting the section with the lugs within

the opposite section, and turning the ring, the two sections are brought closely together.

Claim.—The ribs A, and lugs B, Fig. 2; the slots C C, Fig. 4; and the set or tightening ring, Fig. 5; the whole constructed and operating substantially as herein described and set

No. 37,022.—LORENZO WINSLOW, of Rochester, N. Y.—Improved Method of Fastening Bits of Augers in their Stocks or Handles.—Patent dated November 25, 1862.—Within the socket that receives the bit is arranged a roller attached to one end of a rod that passes upwards and terminates in a thumb piece. This roller moves upon an inclined side in the stock and presses against the shank of the bit, being kept in position by means of a spring upon the rod, so that the bit is held firmly in the socket. By withdrawing the rod slightly the bit is released from the socket.

Claim.—The combination of the rod and spring r s, carrying the roller b with the inclined plane d, when arranged in connexion with a stock or handle, in the manner and for the pur-

pose substantially as described.

No. 37,023.—G. W. WOOLLEY, M. D., of New York, N. Y.—Improvement in Tubular Forceps.—Patent dated November 25, 1862.—This device consists of two tubes, one placed within the other, and enclosing a stiletto, for the purpose of extracting bones or other substances from the esophagus or larynx, and for removing or curing strictures in the urethra, and for other internal operations.

Claim.—The combination of the tube b, tube 3, and stiletto, substantially in the manner

set forth.

No. 37,024.—H. M. WYETII, of Bloomfield, Iowa.—Improvement in Pumps.—Patent dated November 25, 1362.—In the lower portion of the main pump box is a central partition, in the lower end of which is a longitudinal opening, having an opening into the chambers on either side, and provided with valves which open and close alternately.

Claim.—The combination of the central division piece C, with its holes c and d, and valves

If, with the other parts of the pump, the whole constructed and arranged for operation sub-

stantially as shown and described.

No. 37,025.—J. W. ARMSTRONG and JOHN TAYLOR, of Augusta, Ky.—Improvement in Breech-loading Fire-arms.—Patent dated November 25, 1862.—This invention consists in the employment of a "clearer," the stem of which works in a cavity between the bore of

the gun and the socket, and which is carried by the barrel in its revolution, and advanced or retracted by a cam groove or rib upon the breech. It also consists in a device for kelic the barrel when in position for firing, and releasing it by the action of the hamme; we being made of a spring catch which slides in two parallel holes in front of the breech in case. nexion with a segmental plate pivoted upon the hammer-shaft, and having its periph 7 formed with a depression and with a prominent surface. The invention also consists 2.2 combination of devices for connecting and disconnecting the barrel and stock.

Claim.—First, a clearer D, of any suitable form, working within or upon a cam grave or rib on the axis pin, and advanced or retracted by a rotary motion of the barrel, sub-

tially as set forth.

Second, the segment I 45, employed to govern the motion of the spring catch E, six

stantially in the manner explained.

Third, the combination of the stud b' and grooves c c' with the axis pin C and socket. to secure the barrel to the stock and permit their detachment, as explained.

No. 37,026 —SERENA E. L. CHROGAN, of Flatbush, N. Y., administratrix of St. George CROGHAN, deceased.—Improvement in Hoisting Machines.—Patent dated November 20, 1862.—This apparatus consists of a lever pivoted at its centre to the upper part of a frame, upon which lever are arranged two pawls or spring-arms engaging in ratchet teeth place upon a drum. A reciprocating motion is given to the lever by means of handles at the lower part of the frame, and connecting with each end of the lever by means of ropes.

Claim.—The combination of handles M N, lever H, spring arms F G, ratchet where D

E, drum C, operated by ropes in manner and for the purpose herein described.

No. 37,027.—John Magee, of Chelsea, Mass., assignor to the Norton Furnace Compan. of Norton, Mass.—Improvement in Heaters.—Patent dated November 25, 1862.—This in vition consists in supporting the air conduits or pipes which pass through the radiator by yield ing joints arranged at both ends, the lower end being connected with the side of the by an ordinary sand joint formed of a pipe and concentric box, the latter containing said. At the upper end of the air pipe is also a flexible metal joint which is formed of two loss one of them containing lead or other metal which may be rendered fusible by the best of its pipes; the other bowl contains sand, the object being to prevent the pipes from break 1. and also to render their joints tight when the furnace is in operation.

Claim.—Supporting each of the air conduits G by yielding joints, substantially as " forth, arranged at both ends of the same, and with respect to the top and side of the radial

as specified.

Also, the combination of the sand and fusible metal joints, constructed and arrange substantially in manner and so as to operate together as specified.

No. 37,028.—John Ellis, of Detroit, Mich.—Improvement in Gate Latches.—Paradated November 25, 1862.—This invention consists in the employment of a stop suspension. by means of shoulders at its upper end upon brackets cast upon the plate attached to gate post. Upon each side of the head of this stop are suspended catches, which are keep place by their own gravity, so that as the gate latch enters to the stop, over an incline p.sc below the same, the catch on that side rises and allows the latch to drop in position, where is securely held.

Claim.—The pendulated stop E and pendulated catches F, when arranged and or extra

as and for the purpose specified.

No. 37,029.—D. F. DRAKE, of Somerville, Mass., assigner to A. G. L. DRAKE, of Hart den, Maine.—Improved Coat Sling or Carrier.—Patent dated November 25, 1502-Ta-

vention is explained by the claim and engraving.

Claim.—The said improved coat sling or carrier as constructed with a brace strap C. c. bined with a back plate A and its shoulder straps B B, and so slung or arranged below. said back plate that the said strap C, when in use, will go across the back of the weard below his shoulder blades, and thence underneath the arms and upward to the shoulder start B B, substantially as described.

No. 37,030.—W. D. Andrews, of New York, N. Y.—Improvement in Steam Engineer—Patent dated December 2, 1862.—This invention consists in the employment of a valve of posed of a ring connected to a hub by partitions which divide the interior of the ring two separate spaces, and having upon that side of each partition which is in commun. with the exhaust pipe at the edge next the back of the casing, a flange or lip broad en to cover one of the ports, so that the valve and casing are enabled to be fitted up entiry: a turning lathe, and the valve, when in use, be perfectly balanced.

Claim.—The construction of the valve with flanches l l, attached respectively to the interest that the latest and the valve with flanches l l, attached respectively to the interest that the latest and l

titions k k, and arranged to operate in conjunction with the ports, all in the manner

shown and described.

No. 37,031.—G B. BAILEY, of Greenfield, Ind.—Improvement in Grain Cleaners.—[1] dated December 2, 1862.—This invention consists in constructing a cylindrical screen a longitudinal opening in it, which is protected by a curved guard plate, arranged in such a manner over the said opening on the inner side that grain may be readily put into the cylinler and the same rotated in one direction without the grain escaping, and by rotating the ylinder in the opposite direction the grain will all escape through the guarded opening.

Claim.—The curved guard plate arranged over the space a, in cylinder A, as heroin set

orth for the purpose specified.

No. 37,032.—R. CHESTER, of Chicago, Ill.—Improvement in Signal Lanterns.—Patent lated December 2, 1862.—The top and bottom parts of the lantern are provided with a series if concentric circular grooves, according to the number and variety of colored glasses re-luired. The glasses are set in frames fitting within these grooves, and the frames are moved by means of cords attached to their upper ends, so that the glass of any required color may be drawn over the plain glass without exposing the light to the outward air. On opposite ides of the lantern are hinged two wings, which are thrown open when the lamp is to be ighted, and then folded against the glass to exclude the wind.

Claim. - The combination and arrangement of the glasses c d e, (whether set in frames or not,) the grooves CDE, and the cords r r' g g'; and second, the arrangement of the wings a, with the glass c; all constructed and operating substantially as and for the purposes delineated

ind set forth.

No. 37,033.—C. O. CROSBY and HENRY KELLOGG, of Hartford, Conn.—Improvement in Machines for Frilling and Crimping.—Patent dated December 2, 1862.—This machine consists essentially of two parts, the one for forming the crimps and the other for securing them n place after they are formed, the latter being any ordinary mechanism for making stitches. The mechanism for forming the crimps consists of a crimper, which both forms the crimps and spaces them, of a holder for holding the goods at rest while each crimp is formed, and of device for smoothing down or flattening the crimps.

Claim .- First, a crimper, acting substantially as described, to crimp goods and to space he crimps, in combination with a table or platform and a holding mechanism or holder, subtantially such as described, the combination acting substantially as specified; and these are laimed also in combination with either one or two mechanisms for making stitches, substan-

ially as specified.

Second, in combination, a crimper and a smoother, substantially such as described, and

cting substantially as specified, to fold the crimps to an edge.

Third, a crimper, whose acting edge is provided with slots, substantially as described, to almit the passage of a needle to secure the crimps as formed while said crimps are being held y the crimper.

Furth, in combination with a crimper, substantially such as specified, a spring acting toorce said crimper upon the goods while crimping them, and relaxing its pressure while the rimper is retreating, substantially in the manner and for the purpose specified; and, lastly n auxiliary smoother, having a mode of operation substantially such as specified in comination with a crimper and a holder or holding mechanism, substantially such as described.

No. 37,034.-D. M. CUMMINGS, of Enfield, N. H.-Improvement in Water Wheels.-Patent dated December 2, 1862.—The water wheel is formed of a series of angular buckets, ne side being longer than the other, and secured between the outer edge of an upper circular retallic plate and a lower annular rim or plate. The wheel revolves within a circular horiontal water box or casing, provided at intervals with induction openings which are fitted ith vertical chutes tapering inwardly. Between the chutes and the enclosed wheel is fitted n annular gate formed of a series of curved plates, secured to the inner edge of the upper nimilar plate and the outer edge of a lower annular plate, and serve to regulate the amount f water to be admitted to the wheel. Between the several chutes are a series of enclosing rc-shaped open spaces, which serve to prevent the friction of the wheel in its evolutions, by Prosing the resistance of a water cushion when the wheel is submerged.

Claim.—The long and short-sided buckets A A A of my improved water wheel, made

ilistantially as herein described.

Also, the use of a combined series of long and short-sided acute-angled buckets A A, when ranged within a water way E, which is furnished with a series of stationary tangential autes K K, and with a connected series of movable connecting gates M M, substantially the manner and for the purpose herein set forth.

Also, the arc-shaped open spaces ttt, which immediately surround my improved water heel, the said spaces being outwardly bounded by the tangential chutes K K, and the inner de of the water way E, substantially in the manner and for the purpose herein set forth.

No. 37,035.—II. H. Day, of New York, N. Y.—Improvement in Elastic Breeches for Ordance.—Patent dated December 2, 1862.—This invention consists in inserting into the bore the cannon, beneath the powder, an elastic breech formed of vulcanized India-rubber or her suitable material, so constructed as to confine a considerable volume of air in such a canner that it will be compressed without escaping when the charge takes place, for the purone of permitting the breech to yield readily so as to increase the space in which the gases, caused by the explosion, may have room to expand, thereby proportionally diminishing the

intensity of the pressure.

Claim.—An elastic breech piece, composed of rubber, or its equivalent, acting in contact tion with confined air, the whole being placed in rear of the charge sconstructed subsection as above set forth, for the purpose of lessening the pressure upon that part of the gun that which the gases press with greatest force in the act of explosion.

No. 37,036.—O. H. DUNHAM, of Washington, D. C.—Improved Lubricator for Steam In gines.—Patent dated December 2, 1862.—This invention relates to that class of oil care. which two connected disk valves are operated simultaneously to close the ports below 🕼 🕹 ternal reservoir, while those above the reservoir are opened, and vice versa; and the invenconsists, in the combination with the said valves, of tubes so arranged as to afford in large ent and unobstructed passages for the oil and steam, whereby the steam or air from the of the engine to be lubricated is conducted through the oil without interfering with a

Claim.—The combination of the simultaneously operating disk valves B F, wit the tubes at e2 and f2, arranged to provide independent and unobstructed passages for the oand steam, in manner substantially as and for the purposes explained.

No. 37,037.—John Firth and John Ingham, of Phillipsburg, N. J.—Improved Flat for Cast-Iron Pipes.—Patent dated December 2, 1862.—This flask is composed of two exceptindrical pieces or sections connected together by hinges. At the part opposite the hirons junction of the two parts are flanges, which are secured firmly together by means of days and wedges. To the outer sides of the flask are attached staples by which they are suspen upon the chain for elevating the same. In the side of the flask are holes provide we covers, into which holes are inserted smaller moulds for the purpose of forming bosse 🌾 the pipe when necessary.

Claim. -First, the combination, substantially as set forth, of the two halves A and A the flask hinged together, the staples I, or their equivalents, the flanges a a, and clams his

or their equivalents, for the purpose specified.

Second, the covers H of the holes G, when the said covers are hung to the side of a flask and adapted to projections on the same, in the manner described.

No. 37,038.—F. W. Hudson, of Leoninster, Mass.—Improvement in Apple Panne-Patent dated December 2, 1862.—This invention consists in arranging the fork on what apple is placed with a gearing in such a manner that it will, by turning a crank, rotate to its axis, and also rotate in a circle in such relation with a knife or cutter that the apper be properly pared; the knife being so arranged as to operate conjointly with the fork wet

Claim.—The arrangement of the gearing E g h, disk E, and shaft C, substantial shown, for giving the tork I, and apple thereon, the two movements specified; in comtion with the knife-arm J, arranged to operate conjointly with the aforesaid parts to the medium of the pinion G, lever M, and flange l, on disk F, or their equivalents, subtially as herein described.

No. 37,039.—D. M. Gunn and C. L. Cain, of Oskaloosa, Iowa.—Improvement is Berkint—Patent dated December 2, 1862.—The comb frames, which are suspended within the bar the hive, have each attached to them a curved spring or elastic projection, which serve keep the frames in proper position and at a suitable distance apart. The hive is prowith a sliding bottom having around its edge a vertical cleat, at the centre of what recess to admit of the passage of the bees. On the under side of the sliding bottom are recesses extending around three sides near the edges, the spaces between the recesses --edges of the bottom being norched, as also the edges of the side of the body of the Line. the purpose of admitting the external air, and also serving as moth traps.

Claim.—First, the springs or elastic projections C attached to the comb frames B, as an accordance of the comb frames B. as an accordance of the comb frames B. as an accordance of the comb frames B. as an accordance of the comb frames B. as an accordance of the comb frames B. as an accordance of the comb frames B. as an accordance of the comb frames B. as an accordance of the comb frames B. as a comb frame B. as a comb f

for the purpose herein shown and de-cribed.

Second, the false or sliding bottom F, provided with a cleat j all around its edge, and alighting bound n, and also provided with recesses l in its under surface, in count l nthe notches m, in the under side of the bottom, and in the lower edges of the side of the bottom of the hive, substantially as and for the purpose herein set forth.

No. 37,040.—Cancelled.

No. 37 041.—Joseph Goodrich, of Muscoda, Wis.—Improvement in Sorgham Stripers-Patent dated December 2, 1862.—This invention consists in the employment of a characteristic formed of an elastic steel plate of a triangular shape, and curved or bent in manner as to readily adjust itself to the cane in passing through it, and thus deast leaves and the light sheath around the joints.

Claim.—The cutter A, when constructed, arranged and operating substantially &

for the purposes delineated and set forth.

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No. 37,042.—RICHARDS KINGSLAND, of New York, N. Y.—Improvement in Heaters and Ventilators for Tents.—Patent dated December 2, 1862.—This apparatus is designed more especially for heating hospital and other tents of large size, and consists in the employment of two stoves with smoke flues communicating with each end of a long drum placed above

them, from the centre of which the discharge flue rises and a ventilating tube descends.

Claim.—The combination of the stoves A B, drum F, ventilating pipe II, and dischargepipe G, constructed and arranged to operate in manuer substantially as and for the purpose

set forth.

No. 37,043.—RICHARDS KINGSLAND, of New York, N. Y .- Improvement in Army Stores.— Patent dated December 2, 1862.—This invention consists in the arrangement of a "course" of stoves with their legs and pipes in such a manner that two or more stoves, with all their a tachments, can be placed one inside of the other, so as to admit of being packed in a com-paratively small space for transportation. The body of the stove is constructed in an elliptical form, having a section cut away so as to form a flat surface upon the upper part. The stove is supported by legs fitting into loops upon the sides. The pipe is made in sections, of a tapering form, and, with the head, is retained by means of a prong projecting from the lower end of the pipe catching into a loop on the inner surface of the head.

Claim.—First, a course of two or more stoves A B, each having the form of an elliptical

cylinder with a flat upper surface, and provided with movable legs b, a movable head d g, and tapering pipe i, all as herein described, so as to adapt them to fit compactly one within

another, in the manner and for the purposes explained.

Second, securing the pipe i and movable head in position by means of the prong h and loop j, in manner substantially as and for the purposes explained.

No. 37,044.—HENRY KURTH, of New Lotts, N. Y.—Improvement in Tobacco Pipes.—Patent dated December 2, 1862.—In this pipe the bowl and stem are made of one piece of wood. Above the junction of the stem with the bowl is inserted a perforated plate, in which s retained a weighted valve so arranged that the inner end of the smoke channel is never losed by the tobacco in the bowl, thus insuring a good draught and admitting of a ready smoval of the condensed moisture or other impurities which accumulate in the lower part of be bowl.

Claim.—The arrangement of the central opening c and weighted valve d, in combination with the perforated plate C inserted into the bowl A of a smoking pipe, substantially in the sanner and for the purpose shown and described.

No. 37,045.—J. H. MABBETT, of Mechanicsville, N. Y.—Improvement in Railroad Chairs. atent dated December 2, 1832.—This chair is constructed of wrought or cast iron, with a eress or opening through its centre, in which is inserted a piece of wood, rubber, or other instic material, and over which are placed the ends of adjoining rails for the purpose of dieving the latter from the jar caused by a passing train of cars. Upon each side of the seess are curved lips, one of which extends upwards on the outside of the rail, and in conact with the shoulder formed by the tread of the same, so as to aid in supporting and keepig it in position. The other or inner lip serves to retain the lower flange of the rail in position. Claim. - First, a railroad chair having a recess or opening E through the bottom plate or

et thereof, with lip D upon the inside, and the lip B on the opposite side thereof, and each ext adjoining the said recess or opening E on opposite sides of the same, in combination in the block P, substantially as herein described and set forth.

Second, supporting the head or table of railroad rails at their respective joints on the outdet thereof, and immediately under and adjoining the same, by means of the brace B, in institution with the bottom plate or bed of the chair, and with the bead or table of such like whereby great strength is given thereto, and under were and fracture thereof a possible. ils, whereby great strength is given thereto, and undue wear and fracture thereof prevented, ibstantially as herein described and set forth.

No. 37,046.—ALEXANDER MACKEY and J. W. JARBOË, of New-York, N. Y.—Improve-ent in Drip Pots for Refining Sugar.—Patent dated December 2, 1862.—This invention usists in casting the bottoms of the drip pots with projecting ribs, for the purpose of rengthening them, so that in setting the pots one upon the other, the ribs of the upper one Il rest upon the neck of the one underneath it, and thus prevent them from being fractured handling.

Claim.—The construction of a drip pot with a ribbed bottom, substantially as and for the

rpose herein specified.

No. 37,047.—J. J. MARCY, of Meriden, Conn.—Improvement in Lamp Burners.—Patent ted December 2, 1862.—This invention consists in the employment of a burner provided th a draught-tube or deflector, and a chimney flanch or supporter, so arranged as to obtain internal draught within the burner and an external draught around the deflector or cone.

Claim.—The burner B, having its tube c perforated at its lower end and encompassed by guard or flanch f, in combination with the perforated annular flanch or chimney suptier C, applied to the tube c, below the deflector or cone d, all arranged as and for the rpose herein set forth. Digitized by Google No. 37,048.—I. M. MILBANK, of Greenfield Hill, Conn.—Improvement in Breed-lanks: Fire-arms.—Patent dated December 2, 18.52.—This invention relates to the employment a chambered breech which is fitted to the rear of the burrel with a valve-like joint, only a movement towards and from the barrel in a direction parallel therewith, and also still movement to bring its muzzle above the barrel.

Between the rear of the chamber breech and the rear end of the cavity in the franchist reception of the said breech is a curved wedge, which is attached to the front end of a receiving upon a fulcrum pin in a mortise in the upper part of the frame in the rear educavity, and which serves to raise its rear end and depress the front end, to which the respectively.

is attached.

Claim.—The employment of a detached or loose breech piece C and a self-locking interpretation breech wedge D, arranged to operate together in the manner herein shows and described:

No. 37,049.—Lewis and Jacob Miller, of Canton, Ohio.—Improvement in Hamelic: Machines.—Patent dated December 2, 1862.—This invention consists in the use of dealing in connexion with each ratchet wheel, so that one shall hold and the other slip which the of the main frame goes foremost, or when the machine is converted from a respectively. The raker's stand or seat is placed upon the coupling bar of a hinged platform machine that his (the raker's) position, with regard to the platform, shall not be changed as his and falls with it.

In connexion with a hinged finger bar or hinged platform is used a hinged fence of platform, so that the finger bar, with the platform attached to it, may be folded up a subsection.

main frame to be carried by said main frame.

Claim.—First, in combination with a reversible main frame and cutting apparation double pawls and ratchets for connecting and disconnecting the driving wheels and that the necessary fast and loose motions of the wheels upon their axles may be had, where end of the main frame goes foremost, substantially as described.

Also, in combination with a hinge platform or cutting apparatus, the locating of the position on the coupling bar, which connects said platform or cutting apparatus that

main frame, substantially as described.

Also, in combination with a hinged platform, finger bar, and cutting apparatus, a hinged side or fence on said platform, so that the finger bar, cutters, and platform, a them, may be folded up to or against the main frame, so as to be carried by the main substantially as described.

No. 37,050.—W. T. NICHOLS, of Rutland, Vt.—Improvement in Motive Perce.—I dated December 2, 1862.—This device consists of a platform or rocker, having secure under side at each end brackets, which are hinged at their lower ends to a foundation. To each end of the upper portion of the rocker are attached standards, having their upper attached to pitmen connected with a wheel that carries a band. Motion is impartally rocker by a person standing upon the same, and alternately varying the line of gravity heel to toe.

Claim.—A treadle or rocker E, constructed, arranged and operated substantially in manner and for the purpose set forth.

No. 37,051.—J. D. Otstot, of Springfield, Ohio.—Improvement in Lifting Jacks.—I dated December 2, 1862.—This device consists of a hollow metallic stock through which lifting bar passes, and provided at one side with a hole into which the lever is included as slot at the end of the lever are pivoted two pawls, which catch in racks on each allifting bar. The upper ends of the pawls are connected by means of two coiled with in connexion with a rod which passes through the pawls. By pressing the finger become of the pawls, and at the same time pushing the rod in an opposite direction, the are separated, so that the lifting bar will be suddenly dropped after being raised, and weight.

Claim.—First, so connecting and combining the lever B with the stock and lifting it may be attached or detached, for use or for transportation at a moment's notice.

manner herein set forth.

Second, the employment of the rod d in connexion with the pawls a a, for the Figure detaching them from the teeth of the rack bar when necessary, substantially as specific. Third, the arrangement of the lever B, the pawls a a, the springs c c, the rod d, and lifting bar E, in the manner and for the purpose specified.

No. 37,052.—C. II. PALMER, of Lakeville, Conn.—Improvement in Repeating Gasti-Patent dated December 2, 1832.—Reference to the specification and drawings will be 1

sary for an understanding of the invention.

Claim.—First, presenting and thrusting the cartridges into the rear of the revolving or series of such barrels in one point in its circuit, confining and discharging them at all point in such circuit, and removing the shells or cases in another part of such circuit, and removing the shells or cases in another part of such circuit, and removing the shells or cases in another part of such circuit, and removing the shells or cases in another part of such circuit, and removing the shells or cases in another part of such circuit, and removing the shells or cases in another part of such circuit, and removing the shells or cases in another part of such circuit, and removing the shells or cases in another part of such circuit, and removing the shells or cases in another part of such circuit, and removing the shells or cases in another part of such circuit, and removing the shells or cases in another part of such circuit, and removing the shells or cases in another part of such circuit, and removing the shells or cases in another part of such circuit, and removing the shells or cases in another part of such circuit, and removing the shells or cases in another part of such circuit, and removing the shells or cases in another part of such circuit.

Second, the employment in such machines of the projections g and surface i, arranged relatively to the breecles of the barrels G and to the surface I, or their respective equivalents, in the manner set forth, and this is claimed whether the breeches of the barrels and the projections g, or either of them, be adjustable or permanently fixed.

Third, the employment in breech-loading arms of the movable spout N, turning on a hollow axis in line with the barrel to be charged, for the purpose herein set forth.

Fourth, the arrangement of the movable spout N, springs P and N2, and pusher Q3, as herein set forth.

Firth, the spring guides N1, arranged in an annular series around the path of the pusher Q3, for the purpose set forth.

Sixth, the clearing hooks t t, arranged and operated as described, in connexion with the revolving barrels G, or their equivalents.

Seventh, the clearing lever U, operated by the reciprocation of the clearing hooks t t, and combined and arranged therewith, substantially as herein set forth.

No. 37,053.—J. G. PERRY, of South Kingston, R. I.—Improved Meat Cutter.—Patent dated December 2, 1802.—This apparatus consists of a case shaped like two hollow cylinders placed side by side, and divided horizontally through their centres into an upper and lower part hinged together at one side. In each side of this case are placed two cylinders having longitudinal spiral flanges which form cutters, the flanges of one passing between those of the other. One cylinder is provided with a less number of flanges than the other, but having a greater inclination, which causes it to revolve faster than the other, and make a shearing or drawing cut.

Through the flanges of the cylinder having the smaller number are cut a series of grooves to admit of the entrance of knives that project up from the bottom of the case, so as to cut the

meat across between the flanges.

Claim.—First, the combination of the two spiral-flanged cylinders, differing from each other in the number of flanges and in the speed at which they are driven, substantially as

therein described and for the purposes set forth.
Second, the cross knives S, in combination with the case and cylinders, substantially as

described and for the purpose set forth.

No. 37,054.—Titus Powers, of Philadelphia, Pa.—Improvement in Rifling Machines.—Patent dated December 2, 1862.—Within a tube, having on its inner side as many spiral grooves as it is desired to cut in the barrel to be rifled, is arranged a piston or plunger fitting so as to turn and slide to and fro freely, the rear end of the said plunger being connected to a projection on a reciprocating frame. To the extreme rear end of the plunger is secured a hub, from which radiate as many arms as there are spiral grooves in the interior of the tube. Upon a projection of the frame is hung a ball-crank lever, the straight arm of which is caused to act on one or other of the arms on the hub during the movement of the machine, while the bent arm is acted on by a pin on a projection of the reciprocating frame. In the reciprocating frame is an elongated opening with semicircular ends, having teeth upon its interior edges, forming a rack, into which gear the teeth of a pinion secured to a shaft, the front end of which is arranged to turn and traverse in a groove formed on the inside of a plate which is secured to the front of the reciprocating frame.

Claim.—First, the combination of the vibrating pinion shaft I and pinion H with the reciprocating frame E and plunger D, all constructed and arranged substantially as set forth. Second, causing the reciprocating frame, or any devices connected therewith, to impart an intermittent motion to the plunger D or tube C through the intervention of a bell-crank

lever G and hub F, with arms y, substantially as specified.

No. 37,055.—T. H. RISDON, of Mount Holly, N. J.—Improvement in Casting Water-Wheels.—Patent dated December 2, 1862.—This invention consists in casting all the parts comprising the wheel in one piece, by forming, by means of a suitable mould, cores for the buckets, or for the spaces between the buckets, and setting them up in a mould prepared in sand.

Claim.—Casting water-wheels in one piece, in the manner and by means of a mould or

moulds, constructed and arranged as described.

No 37,056.—Gideon Robinson, of New York, N. Y.—Improvement in Shoulder-Straps.—Patent dated December 2, 1862.—This invention consists in forming the border of the shoulder-strap of wire, by coiling the latter upon a mandril of half-round or nearly halfround shape, to form the sides and ends of the border, and combining the sides and ends by means of internal corner pieces, stamped or otherwise formed of plate metal.

Claim.—A shoulder-strap having its border composed principally of a series of wires b b coiled or wound in a half-round form, and a series of internal corner pieces C C, combined

substantially as herein specified.

No. 37,057.—CHRISTIAN SHARPS, of Philadelphia, Pa.—Improvement in Rifling Machines. -Patent dated December 2, 1862.—Passing through a hollow cylinder, supported on a suitable frame, is a rod E enlarged at its front end, the enlarged portion fitting snugly to the bore of the cylinder, and being furnished with six inclined projections which engage into its spiral grooves cut in the said cylinder. The rod E is furnished near its rear end with a help F, on which are cut a number of reversed inclined grooves; a projection i on the end of a spring I, which is secured to the rear standard, being arranged so as to engage in one of the other of these grooves, and thus cause the cutter to move from one groove to the other as the rilling rod is reciprocated. A reciprocating motion is imparted to the cutting rod ty means of an endless belt or chain, to which is secured a box having fitted in it snugly, but so as to turn freely, a pin secured to a bent connecting rod. The end of this connectar rod is joined to the sliding rod H, by which means a uniform speed is imparted to the rifling rod.

Claim -First, imparting to the cutting rod of a rifling machine a reciprocating motion through the medium of an endless belt or chain, or their equivalents, and a rod connected

thereto, substantially as and for the purpose herein set forth.

Second, any convenient number of projections z on rod E, in combination with the groovel cylinder D, when each projection is caused to pass from one groove of the cylinder to an adjacent groove by the automatic devices herein described.

Third, in combination with the rod E of a rifling machine the hub F, with its reversed

inclined planes m and n, the spring I and its projections i, the whole being arranged and operating substantially as and for the purpose herein set forth.

No. 37,058.—ABIEL SAMPSON, of Providence, R. I -Improvement in Putting Up Crasberries for Preservation.—Patent dated December 2, 1862.—This invention consists in put ting up cranberries in hermetically sealed packages of convenient size and form for family use or exportation, the fruit being preserved in its natural condition in such packages by being submerged in water.

Claim.—The merchantable packages of cranberries, preserved in their natural condition

by being submerged in water, as a new manufacture or article of trade.

No. 37,059.—JAKOB RUPERTUS, of Philadelphia, Pa.—Improvement in Revolving Finarms.—Patent dated December 2, 1862.—Secured to or forming part of the barrel is a breek or centre-pin, upon which the chambered cylinder fits, so as to serve as a longitudinal stay for the frame, and render it easy of removal from or connexion with the arm. Hinged to the frame is a curved arm, the rear part of which is made to conform to the shape of the hammer, and fitting over the rear end of the breech-pin to hold the latter securely in position

C aim.—First, the centre-pin C, having one end secured to the barrel and the other end formed substantially as described, so as to fit to the frame, the pin thereby serving as a low-

gitudinal stay to stiffen the said frame, as described.

Second, the arm I, hung to the frame, and adapted to the end of the centre-pin, substantially as described.

No. 37,060.—J. M. SIMPSON, of Maultville, N. Y.—Improved Machine for Cutting Tenons on Wheel Spokes.—Patent dated December 2, 1862.—This invention consists in the employment of a reciprocating frame, provided with adjustable cutter-bars so arranged that they can be set to the required thickness of the tenon to be cut, and used in connexion with adjustable bed provided with a gauge, clamp, and guide, by means of which any desired degree of bevel may be given to the shoulders of the spokes. The inner end of the spokes placed between the cutter-bars, so that as the latter are forced apart the operator, by means of a lever, moves the frame up and down, the cutters at each descent taking a shaving of from opposite sides of the spoke until the tenon is formed.

Claim.—First, the cutter-bars E E, placed in the reciprocating frame B, and used in connexion with the adjustable keys or wedges jj ss, all arranged substantially as and for the

purpose set forth.

Second, the adjustable bed H, provided with the gauge M, guide J, and clamp K, when said bed is used in connexion with the cutter-bars E E and the reciprocating frame B, and arranged therewith as and for the purpose specified.

Third, the combination of the cutter-bars E E, reciprocating frame B, and adjustable bed

II, all arranged for joint operation as and for the purpose set forth.

No. 37,061.—C. E. STELLER, of Genesee, Wis.—Improvement in Harrows.—Patent dated December 2, 1862.—This invention consists in the arrangement of two or more rows of flanged teeth rounded at their front edges, and secured to the under side of the frame is oblique positions, one row being inclined to the right and the other to the left, and so disposed as to cover the whole line. At the rear of the frame are secured two or more triangular

ribs or bars, which serve to smooth and level the earth as it is pulverized.

Claim.—The arrangement of two or more rows of teeth C D, secured by means of flanges c d and screws a, or their equivalents, in oblique positions to the frame A, in combination with the triangular bars or ribs E on the rear part of the frame A, all constructed and open

ting in the manner and for the purpose specified.

No. 37,062.—W. H. THOMPSON, of Cleveland, Ohio.—Improvement in Horseshoe Machines.—Patent dated December 2, 1862.—To the centre of a shaft, situated at the upper part of the machine, is secured a disk or cylinder D, having upon its opposite sides dies F F', which are raised above the surface of the wheel and so curved upon their outer faces as to conform to corresponding flat revolving dies on a wheel below. Upon the face of these dies are lips or projections which form the crease in the shoe. To the centre of a shaft, placed in the lower part of the machine, is secured a disk or cylinder E of equal diameter with the above-mentioned disk, the said disk E being provided with two mandrels J J', the stems of which are enclosed each in an opening or cavity in the disk and project through opposite sides of the circumference. Upon each of these stems are cross-arms, by means of which the mandrels are moved out and in. Stationary cams O O' are so arranged as to cause the said cross-arms to move the mandrel out, where it is held until it has passed from its horizontal to a point beyond the vertical position, or so as to have passed the dies respectively. pairs of sliding jaws are made to slide to and from the mandrels upon the surface of the lower disk by means of stationary cams attached to standards of the frame. Immediately in front of the lower wheel is a standard to which is attached the devices for gauging, holding, and cutting off the heated bar for the shoe.

Claim.—First, the adjustable rest Q', gauge S, slide U, and fingers b b, in combination

with the cylinder E and sliding mandrels J J

Second, the combination of the cylinder E, the mandrels J J', with their radial stems M M'

and arms N N', with the cams O O', constructed and arranged substantially as set forth.

Third, the combination of the cylinder E, the sliding jaws G G G' G', cams I I, and pin K, operating in conjunction with the wheel D and male dies F F', the whole constructed and arranged substantially as specified.

No. 37,063.—John Tremper, of Buffalo, N. Y.—Improvement in Variable Cut-off Gear for Steam Engines.—Patent dated December 2, 1862.—This invention consists in a mechanism composed of two toothed lifters or tripping levers joined to two arms of a rock shaft, and operating in combination with a toothed block on the upright stem or rod of the cut-off valve, and with a cone or wedge connected with a governor, or otherwise made adjustable, whereby a gradual opening of the cut-off is obtained for the admission of steam to the engine cylinder, and a sudden closing of the same to cut off the steam at such point as may be required during the first half of the stroke of the piston. In combination with the said tripping levers is the application of a certain device for enabling the steam to be continued on the piston to different points beyond the half stroke.

Claim.—First, the attachment of the lifters or tripping levers F F' by pivot joints to two arms E E', which are so arranged upon a rock shaft, or its equivalent, as to work below the

axis thereof, and so cause the opening of the valve, slowly at first and with a gradually increasing velocity, substantially as and for the purpose herein specified.

Second, the combination of the lifters or tripping levers F F' applied as above specified, the lifting block B, and the cone G, substantially as and for the purpose herein set forth.

Third, the arrangement of the lifters or tripping levers F F' and the toothed lifting block

B, in combination with the rock shaft D and a cone G, connected with the governor, or otherwise controlled, substantially as herein specified.

Fourth, the mechanism shown in Figs. 3, 4, and 5, and herein described, for tripping the levers F F' in their downward motion, substantially as and for the purpose herein set forth.

No. 37,064.—JOHN TREMPER, of Buffalo, N. Y .- Improvement in Centrifugal Governors .-Patent dated December 2, 1862.—This invention consists in a method of applying the balls in combination with the spindle or axis of the governor, and with a weight or spring employed to act in opposition to the centrifugal force of the ball, so that the governor may be driven at any speed, and increase or obtain power according to the speed in such ratio as to overcome friction, and also to enable the balls to be made small and effect the necessary movement of the valve by a very little motion toward and from the axis of revolution, so that the governor may be caused to run at the same speed, whatever may be the position of the balls relatively to the axis. The balls are so connected with the rod, or its equivalent, through which their action is made effective on the regulating valve, that the latter may be used as a stop valve to stop the engine at any speed, and thus a separate stop may be dispensed with.

Claim. - First, a steam governor having vertical or nearly vertical ball arms b and arms cc, horizontal or otherwise, acting upon a valve-controlling or valve-actuating rod d, the arms cc being as long as or longer than the arms b b, and the whole so constructed and arranged as to avail the full centrifugal force of the balls when hanging in vertical or nearly vertical positions, and impart to the rod d a motion at least equal in extent to that of the

Second, the rectangular or nearly rectangular ball arms b c, b c, and the loaded lever G, applied in combination with each other and in relation to the governor spindle and valve-

operating or valve-controlling rod d, substantially as herein specified.

Third, so constructing the connexions or surfaces of contact of the ball arms, the valveoperating or valve-controlling rod, and the leaded lever, that the effective load on the lever, acting in opposition to the centrifugal force of the balls, increases or diminishes as the centriugal force of the balls increases or diminishes, substantially as herein described.

No. 37,065.—W. H. WILLARD, of Cleveland, Ohio.—Improved Revolving Extension Calor and Gauge Wheel Combined .- Patent dated December 2, 1862 .- The rim of the gauge alewhich latter is attached to the plough beam in the ordinary manner, is made in we per secured in place by means of nuts and screws. The extension coulter consists of four semental steel plates, in which slots are made so as to allow them to slide upon the connectary bars and extend more or less beyond the face of the wheel, between the rims of which is are clamped.

Claim.—A gauge wheel and revolving extension coulter, constructed and operating also

stantially as and for the purpose specified.

No. 37,066.-W. A. Wood, of Hoosick Falls, N. Y.-Improvement in Cutting Apparell for Harresters.—Patent dated December 2, 1862.—This invention consists in the employment of a bow-shaped finger guard, which is placed in contact with the end and under side of the finger bar only and secured thereto by a bolt. The guard surrounds the finger bar, extends on the same plane in rear of the finger bar, and leaving a wide, unobstructed space in is nat part, and terminates at or near the point of the cutter, the object being to enable the and leaving a to work in short, thick, or tangled grass without clogging.

Claim.—The harp or bow-shaped guard surrounding the finger bar, and leaving the taken structed space herein represented between itself and the finger bar, substantially as and is

the purpose described.

No. 37,067.—WILLIAM R. ARTHUR, of Chicago, Ill., assignor to Himself and L H CLARKE, of the same place .- Improvement in Railroad Splices .- Patent dated December :

1862.—This invention is explained by the claim and engraving.

Claim.—A splice or fastening for T-rails, consisting of the pair of deeply crimpel in plates B a b c B' a b c, secured by bolts or keys C C' passing through the upper part of the fish plates and through the neck of each rail, and by one or more bolts or keys C C pering through the lower parts of the fish plates beneath the rails, when the said plates adapted to fit the T-rails in the manner specified, that is to say, wedging tightly between base and tread of the rails, grasping the base above and below, and covering the underof the latter for the greater part of its width, all as herein shown and described, so as to a port the head and base of the rails against both vertical and lateral deflection without state. upon the bolts.

No. 37,068.—E. C. Blakeslee, of Waterbury, Conn., assignor to Holmes, Booth & Hayden, of the same place.—Improvement in Lamps.—Patent dated December 2, 1-11. This invention consists in the employment of a bent lever, having its fulcrum on the capital carries the glass chimney, and acted upon at its inner end by a spring, so that the character is retained within its ring or support by means of the said bent lever, or easily released its

the same by pressing back the lever.

Ctaim.—The bent lever g on the fulcrum 1, and actuated by a spring, as set forth, in a bination with the flanged chimney c and ring or holder b, for the purposes and as special-

No. 37,069.—P. L. CLOW, of Cohoes, N. Y., assignor to Himself and WINDSOR STOYL of the same place.—Improvement in Sash Fastenings.—Patent dated December 2, 192-This invention consists of a latch which may be attached to the frame of a window, and constructed with a chamber and groove for the reception of a spring to hold the same position. On the under side of the catch is a dovetail-shaped lug, which fits in a corresponding recess in a catch piece secured to the window sash, by which means the latter may save prevented from being raised or be held in an elevated position.

Claim.—The latch C, the catch b, and the spring e e, the whole constructed, arrangel, it:

operating in the manner and for the purposes set forth.

No. 37,070.—JAMES CRAWFORD, of Roxbury, Mass., assignor to Himself and W. H. McIntosh, of the same place.—Improved Flower Stand.—Patent dated December 2,142-This device consists of a standard secured upon a pedestal, upon which standard are attacked. shelves for the reception of flower pots. The brackets are made to turn upon the same independently of each other, so as to admit of being arranged in a variety of ways.

Claim.—The flower stand herein described and represented, consisting of shelves c, back.

B, standard A, and pedestal a, combined, arranged, and operating in the manner and keils.

purpose set forth.

No. 37,071.—George Custer, of Monroe, Mich., assignor to Himself, E. B. Root. 2 J. J. Stevens, of the same place.—Improved Cultivator Tooth.—Patent dated December 2 1862.—This invention consists in constructing a cultivator tooth of rolled steel with a verat each side, both formed from the same piece.

Claim.—As an improved article of manufacture, a cultivator tooth provided with with

and all constructed of a piece of rolled steel, in the manner herein set forth.



No. 37,072.—Thomas Hope, of Boston, Mass., assignor to Himself and Henry Edgar-TON, of Shirley, Mass.—Improvement in Skates.—Patent dated December 2, 1862.—This device consists of a heel plate or platform which is arranged to slide longitudinally by means of a right and left screw engaging at one end in a projection underneath its forward part, the other end of the screw passing through a post in front. The screw is turned by means of a handle or "lantern" at its centre. At the forward part of the skate is a stationary foot-rest, to which is attached a flexible loop. The heel is secured in place by means of a strap attached to buttons on a heel plate, while a bifurcated strap passes over the instep and is fastened by a buckie.

Claim.—The actuator, consisting of the right and left screw and lantern, when used in combination with the sliding heel-rest C, the stationary foot-rest b, loop B, and heel and

instep straps D and E.

No. 37,073.—STEPHEN HULL, of Poughkeepsie, N. Y., assignor to Himself and ISAAC W. WHITE, of the same place.—Improvement in Harvesters.—Patent dated Docember 2, 1862.— This invention consists in constructing the tooth of the form shown in the engraving, for the purpose of preventing clogging below the knives as well as above them.

Claim.—Constructing the guard fingers A with four planes d n i j, or the equivalent thereof, substantially as and for the purposes set forth.

No. 37,074.—R. G. HUNT, of New York, N. Y.—Improvement in Wooden Sieves for Gas Parifiers.—Patent dated Docember 2, 1862.—This invention consists in making a sieve, or section of a sieve, from solid wood by cutting slots in the same of a bevelled form, the bars being wider at their lower than at their upper edges, for the purpose of stiffening and sustaining the bar and end piece.

Claim.—A sieve, or section of a sieve, made from the solid wood by slotting, when the slots are conical in form, and so formed at the end as to leave a wider bar at the end on the bottom side, substantially as described, and substantially for the purpose hereinbefore set forth.

No. 37,075.—James Jenkinson, of Brooklyn, N. Y., assignor to Joseph Merwin and E. P. Bray, of New York, N. Y.—Improvement in Revolving Fire-arms.—Patent dated December 2, 1862.—This invention consists in the employment of a slide fitted in a groove across the front of the recoil shield, and provided with a slot for the passage of the cylinder axis pin, and with a notch in its lower edge for a pawl to work in, by which latter the rotary motion of the cylinder is effected, and so arranged that the slide prevents the acts of cocking the hammer or rotating the cylinder while it is open, and that the hammer, when cocked, prevents the said slide from being opened.

Claim.—The slide F, so constructed with a slot e and notch f, or their equivalents, and so combined with a pawl a, through which the rotation of the cylinder is effected, that the cocking of the hammer and rotation of the cylinder are prevented while the slide is open, and that the pawl prevents the slide from being opened while the hammer is being cocked, sub-

stantially as herein specified.

No. 37,076.—C. B. LONG, of Worcester, Mass., assignor to Himself, Augustus Rice, and JONATHAN LUTHER, of the same place.—Improvement in Adjustable Sights for Ordnance.— Patent dated December 2, 1862.—This invention relates, in part, to the device for indicating the elevation of ordnance which constitutes the subject-matter of a patent granted to the said Long, Rice & Luther on July 29, 1862, and it consists in combining a sighting bar with the said device for indicating the elevation of the piece on the same side of the gun as the latter device, so that the sighting of the gun and the adjustment of the elevation may be lirected simultaneously by the same person.

Claim.—Combining the sighting bar and the device for indicating the elevation on the

same side of the piece, substantially as and for the purpose herein specified.

No. 37,077.—G. H. REYNOLDS, of New York, N. Y., assignor to Himself and C. H. DELAMATER, of the same place.—Improvement in Condensing Steam Engines.—Patent dated December 2, 1862.—The rod which carries the air-pump bucket is connected by means of inks to an arm upon a stout rocking shaft which is mounted in suitable bearings on the main rame, and receives motion by means of an arm and connexion from a small secondary crank pin or air-pump crank which is on the further or front side of the engine. Instead of being on the same side of the main shaft as the main crank pin, or on the opposite side thereof, it s nearly quartering thereto. The cock Q, which controls the communication between the nterior of the air-pump above the bucket and the external atmosphere, is connected by means of a rod with the cock that controls the admission of cold water to the condenser, so that both nay be simultaneously operated by the engineer, one being opened while the other is closed. The pressure of air upon the upper side of the air-pump bucket forces the latter down to the owest point in its stroke if it is not already there, and in doing so turns the main shaft so as o carry the main crank pin to nearly halfway between its highest and lowest position.

Claim.—First, the so combining and arranging the air-pump bucket relatively to the steam piston that the latter shall, by the pressure upon the former, be caused to come to or near the condition of half-stroke, substantially in the manner and for the purpose herein set forthing Second, operating the pressure cock Q, or its equivalent, by the movements of the injector

cock, substantially in the manner and for the purpose herein set forth.

Third, the so arranging the parts of the pressure cock or valve and of the injection cock or valve, and their several connexions, that the injection orifice may be increased and diminishwithout affecting the pressure orifice, and yet so that, by an additional movement of the way controlling means, after the injection orifice is closed, the pressure orifice may be opened with the effect herein set forth.

No. 37,078.—Paul Schulze, of Brooklyn, N. Y., assignor to Himself and F. W. Bu-LING, of the same place. - Process of Obtaining Printing Surfaces. - Patent dated Icember 2, 1832.—The object of this invention is to obtain a cheap substitute for election types of wood engravings and for etchings on steel or copper. It is designed also to be use to obtain photographic negatives without a camera, and to make dies and seals. It. process does not admit of a brief description.

Claim.—The within-described process of drawing in soluble ink and treating such draw-

ing for the several purposes herein specified.

No. 37,079.—RICHARD WREN, THOMAS DUNSTONE, and JOSEPH BLIGHT, of Lath Harbor, Mich.—Improvement in Machinery for Manufacturing Safety Fuzes.—Patent on a December 2, 1862.—This invention consists in so arranging and giving motion to the tales and flyers or guides and spools or bobbins of a fuze-making machine as to lay the yarrange. and tapes in opposite directions alternately and simultaneously, by which means the process of making tape-covered fuze is enabled to be carried on simultaneously.

Claim. The arrangement of and mode of driving the several tubes and their five are or guides and bobbins or spools, whereby both the yarns and tapes are laid, wound, at twisted in opposite directions alternately and simultaneously, and the process of making to tape-covered fuze is enabled to be performed by a continuous operation, substantially as

and for the purpose herein specified.

No. 37,080.—J. M. HANCOCK, of Philadelphia, Pa.—Improvement in Coal Oil Lamps.—Patent dated December 2, 1862.—This lamp is composed of a tapering tube, which restauted and is hinged to a dish-shaped base, and surrounding at its lower part a small reserved oil provided with a tube and wick and used as a supplementary lamp. The main reserved which is placed at the upper end of the tapering tube, and surrounds the same, is provided with two flat tubes inclining towards each other, their upper ends nearly meeting. Retwethese wick tubes is a hollow tapering cap covering the top of the main tapering tube. at-

open at its upper end, so as to admit of the passage of air between the two wick tubes.

Claim.—First, any suitable reservoir D in which is a tube forming an air passage is latter being surmounted by a cap H, and said reservoir having one or two wick tubes. and C', when the latter are formed and arranged in respect to the opening in the top of the cap substantially as specified, and when a supply of air is transmitted to the cap, through

the aforesaid tube, by the agency of a supplementary lamp.

Second, the tube E, and its reservoir D, when the former is hinged to a suitable lase A and is arranged to enclose a supplementary lamp B.

Third, the arrangement of the tube E, tube F, in reservoir D, and cap H.

No. 37,081 .- J. A. DE BRAME, of New York, N. Y .- Improvement in Machinery for Separating Fibres from Plants.—Patent dated December 2, 1862.—This invention relates the employment, in combination with each other, and with suitable feeding rollers, of a series of combs or combs and scrapers attached to the periphery of a cylinder, and a similar series attached to an endless belt, for the purpose of removing the woody or pulpy potters of the leaves from the fibre; and it consists in so arranging the bearings of the shall of L. said cylinder, and also the bearings of the shafts of the drums which carry the endless but as well as those of the feed rollers, as to leave the machine open on one side to facilitate : removal of the fibres. The upper feed roller is so arranged as to allow the end next the end side of the machine to be raised for the purpose of permitting the uncombed ends of 🖆 leaves to be taken out of the machine.

Claim.—First, so arranging the bearings of the cylinder, those of the drums which carry the endless belt, and those of the feed rollers, as to leave the machine open on one we

substantially as and for the purpose herein set forth.

Second, so applying the upper feed roller as to enable its outer end to be raised to incress the opening between the two feed rollers at the open side of the machine without raising bearing of said roller at the opposite side, substantially as and for the purpose herein specific

No. 37,082.—J. B. BARCALO, of Mt. Morris, N. Y.—Improvement in Grain Separators—Patent dated December 9, 1862.—This invention consists in the arrangement in an on the state of the contract o grain shoe of an oat board placed at the lower part of the shoe and capable of longituding adjustment, together with a sieve or screen placed above the oat board and having a value inclination so as to adapt its position to the strength of the blast and condition of the Claim.—The arrangement, in grain separators, of the oat board B, having a longitude

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adjustment, in combination with the sieve C, having an adjustable inclination, as described, and both operating conjointly with the blast, in the manner and for the purpose specified.

No. 37,083.—JACOB BICKHART, of Harlan, Ind.—Improved Gate.—Patent dated December 9, 1832.—This invention consists in the employment of a system of levers, in connexion with arms and a sliding bar, so constructed and arranged as to enable the gate to be opened by a person from a carriage or on horseback without alighting. The gate is retained in a closed state by means of the sliding bar.

Claim.—First, the levers F F, connected to the gate A through the medium of the arms E E, the latter being connected to the gate and to the levers by means of hinges, and all arranged as shown for the purpose of opening and closing the gate, as set forth.

Second the diding bar of provided with a record to the gate vide in combination with

Second, the sliding bar G, provided with a recess k at its under side, in combination with the slot l in the top bar d of the gate for the purpose of serving as a fastening for the latter, as set forth.

Third, the combination of the sliding bar G, levers F F, arms E E, and gate A, all arranged as and for the purpose specified.

No. 37,084 —HENRY A. BURR and LUCIUS E. ROCKWELL, of New York, N. Y.—Improvement in Lubricators.—Patent dated December 9, 1862.—This invention consists in attaching to or forming on the shaft next to each journal a circular cup or hollow wheel entirely closed on the inner side and open towards the journal and extending over the journal box, the opening being of smaller diameter than the inside of the cup, so that all the oil that leaves the journal and journal box shall enter and be caught by the said cup, and there retained until it shall have been collected in sufficient quantities to be thrown out, the object being to prevent the oil from getting upon the shaft and being thrown therefrom and wasted.

Claim.—The rotating cup or hollow wheel, substantially such as herein described, in combination with a shaft and journal box, and placed with its open end next to and extending over the end of the journal box, substantially as and for the purpose specified.

Also, in combination with the rotating cup or hollow wheel on the shaft, and extending over the end of the journal box, the projecting flanch on the end of the journal box, substantially as and for the purpose specified.

No. 37,085.—George T. Comins, of Lowell, Mass.—Improved Bed Bottom.—Patent dated December 9, 1832.—The bed bottom is formed of a series of longitudinal wooden slats pro vided with slots at their ends and fitted on pins in the cross-rails of the bedstead so as to admit of their being inverted when they become sprung or "set" at on one side.

Claim.—The longitudinal elastic wooden slats B, provided at their ends with oblong slots a fitted on pins b in the cross-rails c c of the bedstead, substantially as and for the purpose

herein set forth.

No. 37,086.—ROBERT CORNELIUS, of Philadelphia, Pa.—Improvement in Kerosene Lamps.—Patent dated December 9, 1862.—This invention consists in the employment of a circular spring attached to the inside of the lower part of the dome, and, passing around within the rim of the lower part of the dome, terminates in a hook which passes out and extends over the lower edge or rim of the glass shade, so that when the shade is placed on the dome the elasticity of the spring causes the hook to press upon and hold the shade, in connexion with a projection, down to the deflector. On each end of the frame aperture is placed a small projection extending upwards vertically for the purpose of preventing the flame from expanding.

Claim. First, the hook s t for securing the shade to the deflector and the deflector to the lamp, substantially as above described, or for the purpose of a handle merely to the deflector. Second, the auxiliary vertical end guide pieces f for directing the air at the ends of the flame, and preventing it from expanding or burning irregularly.

No. 37,087.—EDWARD COTTY, of Washington, D. C. —Improvement in Knee-joints for Artificial Legs.—Patent dated December 9, 1262.—The object of this invention is so to form the joint as to imitate the eccentric motion of the natural knee-joint, avoiding all unnecessary friction, and making the shortening or reduction in the length of the leg proportional to the

angle formed by the parts representing the femur and the tilia, respectively.

Claim.—The eccentric hinge formed of two parts, representing the lower parts of the femur and the tibia, in connexion with the adjustable spring z. or any other substantially the same, representing the fibres of the exterior tendons, as set forth and described.

No. 37,088.—Samuel R. Dimock, of Pittsfield, Mass.—Improved Automatic Brake for Railroad Cars, &c...—Patent dated December 9, 1862.—This invention consists in the arrangement of an oscillating frame carrying a spring and two pinions, one on a screw shaft and the other on an arbor, to which a longitudinal sliding motion is imparted by the action of the said screw shaft in combination with a suitable hand lever and with a cog-wheel secured to the axle of the wheels of a railroad car, so that by the action of the hand lever upon the frame the pinion which is attached to the screw shaft can be thrown in gear with the cogwheel on the axle and serves to wind up a spring as the car stops, the force of which can be

used in turn to aid in propelling the car in starting.

Claim.—The arrangement of the oscillating frame E carrying the pinion H, with its works shaft e and spring K, and the pinion I with the longitudinally sliding arbor f, in combinit a with the cog-wheel J on the axle C of the wheels of a railroad car, all constructed and operating substantially as and for the purpose herein shown and described.

Also, the arrangement of the dog p projecting from the pin i on the screw shaft e, in con-

bination with the pinion H and spring K, as described, for the purpose of prevening the

spring from unwinding any further than desirable.

No. 37,089.—L. H. DOYLE, of Waterloo, Iowa.—Improved Cultivator.—Patent dated December 9, 1862.—To the curved beam bar is attached at each side a laterally projecting lat. to which are bolted two angle bars, the latter being also attached to the plough standard in such a manner as to admit of their being secured at a greater or less distance apart, and also to admit of the shares being raised or lowered as desired.

Claim.—The combination with the beam bar A and standards E E of the adjusting bars

b d, in the manner herein shown and described.

No. 37,090.—A. G. EDDY, of Ashfield, Mass.—Improved Churn.—Patent dated December 9, 1862.—To the upper and lower part of the shaft are attached radial arms, between when are fitted four beaters, two being stationary, and having a radial position with the shaft ware the other two are arranged in such a manner as to have a rotary motion on their axis hour pendent of that caused by the rotation of the dasher shaft, but produced by the rotation of the latter.

Claim.—A rotary churn dasher, composed of two beaters G G, fixed in radial arms d attached to the dasher shaft B, and parallel therewith, in combination with the beaters K K, arrangel to operate conjointly with the beaters G G, as and for the purpose herein set forth.

No. 37,091.—A. T. FREEMAN, of Binghamton, N. Y.—Improvement in Recolving fire arms.—Patent dated December 9, 1862.—The axis pin is composed of two separate pieces: enable it to be so insorted in the central bore of the cylinder that, while it fits loosely there it cannot drop out in either direction when it and the cylinder are removed from the frame. The rear piece is screwed into the front piece, the latter being made with a T head, at onceof which is a tongue which extends backwards a short distance parallel with the pin. The back piece is made with a shoulder, the portion on the front of the shoulder being cylindreand of a diameter corresponding with the front piece, but the portion in rear of the shows: being of a larger diameter.

Claim.—The cylinder axis pin, constructed of two pieces C C', with a shoulder c, a T to b, and a tongue b', and applied in combination with the cylinder and the frame of the last

arm, substantially as herein specified.

No. 37,092.—WILLIAM FULTON, of Elizabeth, N. J.—Improvement in Stores.—Patent der December 9, 1862.—This invention consists of a portable stove designed to Le used in a house or camp for heating rooms or cooking, which is effected by means of an open hard coal-oil grate, over which is placed a jacket provided with openings for the proper uter-coal-oil, alcohol, naphtha, or other similar substance, being used for fuel for the same.

Claim.—First, the construction of the valves in extinguisher C, or their equivalent shown at S and V in Fig. 6, for producing a gas-light and regulating the action of the

either partially or wholly extinguishing it.

Second, the construction of cones D, or their equivalent, as shown in Fig. 3, for sprace: the flame and admitting the air thereto, in combination with the extinguisher C shows Fig. 6.
Third, the cone F, or its equivalent, as shown in Fig. 8, for producing a gas-light in a shown in Fig. 8.

Fourth, the fuel chambers h, or their equivalent, as shown in Fig. 3, in combination pipes g, in Fig. 4, for heating the water in reservoir A, the whole being arranged substant 2 as and for the purpose herein set forth.

No. 37,093.—Smith Gardner and A. B. Howe, of New York, N. Y.—Apparetes for Cleaning Rice, Coffee, and other Grains.—Patent dated December 9, 1862.—This appearance consists of a hollow cylinder, in which is placed a shaft provided with a series of the screws or propellers. Near the discharge end of these propellers the cylinder is contract or reduced in diameter, terminating in an abrupt ledge. Upon the shaft are also a series of the cylinder is contract. disks, the edges of which bear against the said ledges, and are kept in position by acceptance.

of springs operating upon the hubs of the disks.

Claim.—One or a series of screws revolving in a cylinder and operating in conjuct. with the disk or disks, substantially in the manner described and for the purposes set to ...

No. 37,094.—WILLIAM GARDNER, of New York, N. Y.—Improvement in Mitallic I. steads.—Patent dated December 9, 1862.—This invention consists of a folding man;

frame combined with a metallic or other bedstead frame, of a height less than one-half the length of the said frame, and fitted so that the bedstead when folded will not be increased in thickness by the mosquito frames lapping over each other. These frames are provided with cross-bars forming head and foot guards, so arranged that they can be inclined more or less for the convenience of the occupant in certain positions.

Claim.—The folding mosquito frames d d, in combination with the bedstead frame a, in

the manner shown, so that said frames d d fold clear of each other, as set forth.

Also, the variable braces, fitted as specified, in combination with the folding head or foot guards and bottom or frame a, as set forth, whereby the inclination of said head or foot guards can be varied, as specified.

No. 37,095.—VALENTINE HAEFFNER, of Dobbs' Ferry, N. Y.—Improved Artificial Cellar.—Patent dated December 9, 1862.—This invention consists in the arrangement of two ice boxes, one in the top and the other in the interior of the cellar or space to be cooled, in combination with tubes leading from the upper part of the cellar into the ice box at the top of the cellar, and with another tube leading from the upper down to the lower ice box, so that the warm air emanating from the liquors that may be stored in the cellar will rise and pass into the upper ice box, where it will be cooled and then sink down through the connecting tube into the lower ice box and be distributed throughout the cellar or space to be cooled, thus creating a continuous current of air.

Claim.—The arrangement of two ice boxes C F, one on the top and one in the interior of a cellar or enclosed space A, in combination with the tubes D and E, all constructed and

operating substantially as and for the purpose shown and described.

No. 37,096.—E. P. HASKELL, of Harlan, Ind.—Improved Machine for Bending Plough Handles, Hames, Carriages, Thills, &c.—Patent dated December 9, 1862.—Between suitable guides on a bed or frame is fitted a longitudinal slide capable of adjustment by means of a screw and nut. Upon this slide, near its inner end, is placed a roller D, fitted loosely on a vertical shaft, the lower end of which is permanently secured in the slide, and the upper end having its bearing in a plate attached to the slide and projecting beyond the edge of the roller. Secured upon the bed by a vertical rod on which it turns is a pattern G of contrictions of the roller. of semicircular form, and to the upper surface of the bed is attached a bearing or guide, which is formed of bent metal plate and projects forward in front of the roller D at one side of it, its front end being in line with the rod of the pattern.

Claim.—The combination of the sliding pressure roller D, slide B, screw C, plate F, and

guide J, with the rotary pattern G, in the manner herein shown and described.

No. 37,097.—ZENUS G. HURD, of Eldorado, Iowa.—Improved Millstone Dresser.—Patent dated December 9, 1862.—This invention consists in the arrangement of a hinged holder in combination with a trip lever in such a manner that the position of the pick in relation to the surface of the burr or stone can be adjusted at pleasure. In the interior of the eye is a V-shaped seat to receive the pick, with which is combined a wedge in such a manner that the eye can be readily fitted to picks of different shapes and sizes. Combined with the trip lever is a spring lever, in such a manner that, by the action of the latter, the force of the blow can be regulated at pleasure.

Claim.-First, the arrangement of the hinged holder II, in combination with the trip lever A and pick B, constructed and operating substantially as and for the purpose specified.

Second, the arrangement of the V-shaped seat p and triangular wedge p, in combination with the holder H and pick B, as set forth.

Third, the arrangement of the spring lever I, in combination with the trip lever A, as and for the purpose described.

No. 37,098.—EDWARD M. JUDD, of New Britain, Conn.——Improvement in Brakes for Railroad Cars. - Patent dated December 9, 1862. - This device consists of a barrel actuated by means of a lever and pawls, the chain which is attached to the brakes passing over the barrel, the object being to gain more power than can be exerted by the ordinary horizontal wheel.

Claim.—The barrel f and ratchet wheel g, in combination with the lever h and pawls i k, substantially as and for the purposes specified.

No. 37,099.—EDWARD M. JUDD, of New Britain, Conn.—Improvement in Trucks for Railroad Cars.—Patent dated December 9, 1862.—This invention consists in the employment of parallel shafts or axles extending across or nearly across the truck frame, the wheels being attached to the opposite ends of alternate shafts, so that each shaft has but one wheel, and is free to rotate independently of the others.

Claim.—Arranging a series of axles, in a truck for cars, parallel to each other and fitted with the wheels at opposite ends of the alternate shafts, substantially as and for the purposes

specified.

No. 37,100.—THOMAS LANE, of San Francisco, Cal.—Improvement in Machine for Diging Potatoes.—Patent dated December 9, 1862.—Upon a stout rectangular frame

mounted a revolving cylinder, provided on its periphery with a series of curved bucker. Below the front part of this cylinder is suspended the rear end of a shovel, its front end being connected to a vertical screw passing through the forward end of the frame, so that the front end of the shovel may be adjusted higher or lower as desired. At the rear of the cylinder is arranged a shaking shoe and chute board, which latter conducts the potatoes free from earth to hoppers attached to the rear of the main frame. The bottoms of the hoppers are pivoted and provided with handles, so that they can be tilted to allow the potatoes to fall into sacks, which may be attached to the bottom of the hoppers.

Claim.—First, the arrangement of the shovel O, screw bolts R R, pinions k k m m, crank

o, and axle P, for raising and lowering the shovel, in combination with the frame A and re-

volving buckets b D, operating in the manner and for the purpose described.

Second, the shaking shoe K, chute board e, and revolving buckets b D, in combination with the shovel O and hoppers M, provided with tilting bottoms q, when arranged and operating in the manner and for the purpose described.

No. 37,101 — MARK LEVY, of New York, N. Y.—Improvement in the Manufacture of Illuminating Gas.—Patent dated December 9, 1862.—This invention consists in combining or mixing together the gases generated from wood and from oil, and conducting them when thus mixed through a series of flues, by which they are subjected to further heating, for the

purpose of more effectually mixing them and depriving them of impurities.

Claim.—The arrangement of mixing the gases, generated in separate retorts, from wood and from oil, or its equivalent, and then reheating the thus mixed gases before the same are allowed to pass into the purifier and gasometer, in the manner and for the purpose substan-

tially as described.

No. 37,102.—Dioclesian Lewis, of Boston, Mass.—Improved Book Rack.—Patent dated December 9, 1862.—This device consists of a rack similar in form and construction to an ordinary ladder, in combination with a vibrating frame or brace, which is hung at or new the centre of the said rack, and a strap, one end of which is fastened to the foot of the vibrating frame, and the other, passing under the foot of the rack, is hooked to the different rounds of the rack as may be necessary in order to give the proper slope to the said rack. Combined with the rack and bar are vibrating fingers or clamps fastened to the bar in an inclined position, so as to hold open a book placed upon it. A bar provided with hooks, so as to hook upon the rack, is used for supporting the book.

Claim.—First, the combination of the rack 1 2, brace 3, and strap 5, as hereinbefore set

forth.

Second, the combination with the rack 1 2 of the bar 7, as described.

Third, the combination with the rack 1 2 and bar 7 of the fingers 9 9, for the purpose and in the manner set forth.

No. 37,103.—DENNIS G. LITTLEFIELD, of Albany, N. Y.—Improvement in Stores.—Patent dated December 9, 1862.—Antedated November 26, 1861.—The object of this invention is first, so to construct the grate as to dispose of the slate or other incombustible substance without tilting the grate to empty the same; second, to more completely utilize the heat produced by the combustion of the volatile as well as the fixed portions of the fuel; third, to communicate a greater degree of heat through the outer surrounding case from the chamber surrounding the fire-pot; and fourth, to obviate the danger or annoyance of explosion, caused by the admission of atmospheric air to the highly inflammable gas, when the stove is opened to be replenished with coal.

Claim.—The mill grate A B, constructed and operating substantially as and for the pur-

poses herein specified.

Also, the construction of the fire-pot D, with outwardly projecting combustion mouths of outlets d d opening immediately into and in combination with the chamber E, for the purpose herein specified.

Also, the form and arrangement of the case M, in relation to and in combination with the

fire-pot D and chamber E, substantially as and for the purposes herein set forth.

Also, compelling the draught to pass upward through the supplying cylinder H while kindling the fire in the stove, and immediately previous to as well as during the act of replenishing the cylinder with coal, for the purpose specified, and this irrespective of the special construction by which the same is effected.

Also, the central chamber above the supplying cylinder H communicating with the exit fice p, whereby any air that passes into said chamber by the cover R is conveyed to the exit flue,

as specified.

Also, the divided flue M around the chamber I, and forming a communication between the front of the chamber E and the exit flue p, whereby the products of combustion are conveyed to the chimney without interfering with the action of the said chamber, and the radiation of heat from the stove is properly distributed, as herein set forth.

Also, the sliding plate or valve N, so arranged that it necessarily closes the opening of from the chamber E to the flue K when the aperture n from the supply cylinder H to the central chamber I is comed and the chamber I is comed and th chamber I is opened, and vice versa, whereby the draught is directed at pleasure, either up through the chamber E or the supply cylinder H, for the purposes herein set forth.

No. 37,104.—DAVID MAYDOLE, of Norwich, N. Y.—Improvement in Skate Fastenings.—Intent dated December 9, 1862.—This invention consists in having a hook at the back part f a heel plate attached to the skate, and a plate provided with the parallel slots attached to he heel of the boot or shoe, the parts being so arranged that the hook on the skate may be bassed through the slots in the plate which is attached to the heel of the boot or shoe and firmly astened. The front part of the skate may be attached to the foot in any convenient manner.

Claim.—The hook F attached to or formed on the plate E at the back part of the skate in ombination with the plate G attached to the heel of the boot or shoe and provided with parliel slots c c, or any equivalent staple, to receive the hook F, when used in connexion with ny suitable fastening for holding the front of the skate against the sole of the boot or shoe, ubstantially as and for the purpose specified.

No. 37,105.—OLIVER W. MORLEY, of Ellisburg, N. Y.—Improved Buckle.—Patent dated December 9, 1862.—At each side of the frame or bow of a buckle are lugs, the ends of which are connected by a cross-bar or rod. To the centre of this rod is attached a plate by means of an eye. At one end of the bow or frame is a pin which projects from the bow in the same lirection as the lugs and passes through a hole in the hinged plate.

Claim.—The combination with the hinged plate B and cross-bar b with the frame A and

oin C, in the manner herein shown and described.

No. 37,106.—MORGAN PAYNE, of Cardington, Ohio.—Improvement in the Construction of Dashers for Churns.—Patent dated December 9, 1862.—This invention consists in the employment of two dashers placed upon one and the same shaft in such a manner that when he shaft is turned in one direction both dashers serve to agitate the milk sufficiently to proluce the butter, and when the motion of the shaft is reversed the upper dashers rise to the urface and serve to collect the butter in masses, so as to facilitate its removal.

Claim. - The shaft A, in connexion with the rod B and dashers e e and the arm C, with the

lashers d d, the whole arranged in the manner and for the purpose herein specified.

No. 37, 107 .- SILAS S. PUTNAM, of Dorchester, Mass .- Improvement in Machines for Forging Torseshoe Nails .- Patent dated December 9, 1202 .- Reference to the specification and

lrawings will be necessary for a description of this invention.

Claim.—First, in combination with a revolving cam for operating four hammers in pairs of two, the arranging of said cam behind the pivots of the hammer helves, for the purpose of protecting said cam and its co-operative parts from the scales and heat of the nail-rods and hammers, and thus protecting them from cutting, wearing, and undue friction by the lrying or burning of the oil, substantially as described.

Second, the method, substantially as herein described, of operating the cutter n, namely,

by the lever M and slotted lever O.

Third, the block T and its connexions for stopping and holding the hammers, substantially is specified.

Fourth, regulating the throw of a pair of hammers by applying thereto the power of a suplementary spring, substantially in the manner set forth.

Fifth, operating the gauge lever V by the lever U, which forms part of the device for ar-

esting the hammers. No. 37,108.—SAMUEL J. REEVES, of Philadelphia, Pa. - Improvement in Fagots for Wrought Ictal Cannons, Hydraulic Pumps, &c.—Patent dated December 9, 1862.—This invention onsists in making a pile or fagot of wrought-iron, or of steel and wrought-iron, by wrapping

ne or more sheets of iron or steel around a hollow tube or solid bar of iron or steel until it sumes the required diameter, the said tube or bar forming a part and parcel of the pile or 1got, when drawn by rolling or hammering, and constitutes the part or portion from which

ne bore of the finished gun is formed.

Claim.—The making of the bore on which the sheets are wound and welded of sufficient ze to margin the bore of the gun when finished, substantially as and for the purpose deribed.

No. 37,109.—James Robinson, of Barnegat, N. J.—Improved Cable Stopper.—Patent ated December 9, 1862.—This invention consists in the employment of a hinged forked aw, the shank of which catches under a hinged dog, which is connected to and operated v a foot lever in such a manner that the claw, when brought to catch over the link of the tble, retains the same firmly, and prevents it from running out, and that by depressing the ot lever the shank of the claw is released and the cable freed.

Claim.—The arrangement of the hinged claw A, in combination with the rod or stem B, dog , and foot lever D, all constructed and operating substantially as and for the purpose shown

ad described.

No. 37, 110.-J. F. ROCHOW, of New York, N. Y .- Improved Hoisting Apparatus .- Patent ated December 9, 1862.—This invention consists in the arrangement of two cog-wheels aving a different number of teeth, the one with the largest number of teeth being stationary, id the other being secured to the axle of the drum of the hoisting apparatus, in combina-

tion with the other cog-wheels having the same number of teeth, and attached to a turing shaft, which is carried around the centre of the drum shaft in such a manner that, by the 🚐 bined action of the two wheels on the tumbling shaft and the differential wheels, a slow: at motion is imparted to the drum shaft, and that the power applied to the tumbling dismultiplied in proportion to the number of teeth of the gear wheel on the drum shaft, do all by the difference between the number of teeth of the said wheel and that of the stations

Claim.—The arrangement of the differential wheels a b, in combination with the 1-10 main shaft B, tumbling shaft D, with pinions c d and drum E, all constructed and oper ::

substantially as and for the purpose herein shown and described.

Also, the tumbling shaft D, when the same is arranged with two wheels or pinions (4) operate in combination with the wheels a b, substantially in the manner and for the party set forth.

No. 37,111.—Anson Rowe, of Atalissa, Iowa.—Improved Grain Separator.—Paut divi December 9, 1862.—Over the upper riddle, which is of the common construction, is placed. metallic plate which serves as a cover for the said screen, and prevents all light foreign rate from passing upon it, the space between the discharge end of the feed-board and the inner end of the upper riddle being sufficiently great to allow the fan to eject the said substant through the same, and the plate preventing them from falling upon the upper riddle. Dec. below the lower riddle is placed a screen or sieve having a chute beneath it, the said said being inclined in a reversed direction to the riddles.

Claim.—First, the plate K placed on or over the upper riddle H, and in relation with the red board D and fan L, as and for the purpose specified.

second, the combination of the sieve M, riddles H H, plate K, feed-board D, and in L arranged for joint operation as and for the purpose herein set forth.

No. 37,112.—THOMAS SAULT, of Seymour, Conn.—Improvement in Machinery for Count Wire with Caoutchouc Gutta Percha. - Patent dated December 9, 1862. - This invention ... sists in the employment of a screw working in the bore of a cylinder into which the grade fed, and from which it is forced by the screw through or into a die of the proper size and best produce the exterior of the covering tube or other article to be manufactured. For the ering of wire or the manufacture of tubing, the screw is made hollow for the receptable a mandrel through which the wire to be covered passes, or upon which the interest tubing is formed. The cylinder is so constructed as to enable it to be supplied with second without stopping the operation of the screw, and thus operates continuously to make a taror cover a wire of any length or to fill a mould of any required size.

Claim.—First, the combination of a cylinder A, a hollow screw B, and a central man's

C, passing through the hollow screw, substantially as herein specified.

Second, the construction of the cylinder A, containing the screw B with a threat carrier ternal cavity b, arranged substantially as and for the purpose specified.

Third, feeding the wire to be covered with the gum by the movement of the gum produced by the screw B or other device for forcing it through the forming die, substant . ! as herein specified.

No. 37,113.—George Sherwood and Henry M. Sherwood, of Chicago, Ill.—Impro-Mode of Fastening the Covers of Ink-Wells.—Patent dated December 9, 1862.—This invest

is expiained by the claim and engraving.

Claim.—Fastening the covers of ink-wells thereto by means of pins a with enlarge heads acting against the inclined edges of concentric slots ff in the raised flange E of a second well, substantially as and for the purpose herein specified.

No. 37,114.—W. C. Shipherd, of Saratoga Springs, New York.—Improvement in Botter Shoe Lasts.—Patent dated December 9, 1862.—This invention consists in a method of and ing the removable block of the last to the latter in such a manner that it may be detailed from the last by the hook which is usually employed for drawing the last from the book of

Claim.—The spring catch E, in combination with the polygonal plate E', said parts ! . . . constructed and arranged substantially as and for the purpose specified.

No 37,115.—Edward Stern, of Dorchester, Mass., and James S. Newell, of New : Mass. - Improved Machine for Cutting Button Holes .- Patent dated November 9, 14 -This invention consists of a button-hole cutting machine having a triangular or trafe: bed so arranged and applied in relation to the cutter as to be capable of being mored plane and transversely of such cutter. In combination with the bed and cutter is an .. able gauge K which serves to preserve the cutter at a like distance from the edge of cloth while cutting each of the several button-holes. Attached to the gauge K is a se ary gauge consisting of a slotted bar so arranged in relation to the cutter as to make the equal distances or at such other distances apart as may be desirable.

Claim.—A button-hole cutter as made with a triangular or trapezoidal bed B, so a Table and applied with respect to the cutter A as to be capable of being moved in one plat -

transversely of such cutter, substantially as described.

Also, the adjustable gauge K, in combination with the bed B and the cutter A, arranged in manner and so as to operate together substantially as specified.

Also, the auxiliary or secondary gauge L, in combination with the cutter A and the bed B, the latter being constructed and arranged so as to operate substantially as specified.

No. 37,116.—LA ROY SUNDERLAND, of Boston, Mass.—Instrument for the Cure of Spermatorrhaa.—Patent dated December 9, 1862.—The nature of this invention is explained by the claim and engraving.

Claim.—First, the use of an adjustable spring lever or levers armed with sharp points or teeth, and arranged substantially as herein described and for the purpose set forth.

Second, the combination of the ring a and spring lever or levers b, arranged together, substantially as herein described, and forming a seminal guard to be used for the prevention and cure of spermatorrhœa.

No. 37,117.—W. R. THOMAS, of Catasaugua, Penn., and M. EMANUEL, jr., of same place.—Improvement in Blasting Compounds.—Patent dated December 9, 1862.—This invention relates to a blasting compound for which letters patent were granted to the said Thomas and Emanuel on March 11, 1862. The nature of the invention is stated in the claim.

Claim.—The blasting compound made of nitrate of sods, sulphur, chlorate of potash, starch and ground bark, or other absorbent carboneceous material, substantially in the man-

ner and in about the proportions herein specified.

No. 37,118.—JOEL WEBSTER, of Brooklyn, N. Y .-- Improvement in Sadirons.-- Patent dated December 9, 1862.—This device is so constructed as to admit of a ready attachment to or detachment of the handle from the main body at the moment the latter is placed in position upon a heated stove plate. At each end of the wooden handle are secured uprights fitting at their lower ends into a sadiron. To one of these uprights is pivoted a thumb lever, its lower extremity terminating in a catch to engage with a corresponding lip projecting from the sadiron, by means of which the handle may be readily attached to or detached from the sadiron.

Claim.—The thumb lever M, in combination with the uprights E and E' and main por-

tion A, substantially as described.

No. 37,119.—LUTHER C. WHITE, of Waterbury, Conn.—Improved Mode of Fastening Lamp Chimneys and Shades on Burners.—Patent dated December 9, 1862.—This device consists of a piece of metal provided with three projections or teeth and fastened to the burner by means of a bolt placed just below the rim. A piece of wire, curved with the burner, is placed in the interior of the same, one end of which works in the lower projection, and the other end in one of the small perforations in the burner, so that the wire acts as a lever prop when the projections are brought either backward or forward to adjust the chimney.

Claim.—First, the peculiar construction of hawk's-bill B, or its equivalent, as shown in Fig. 1, Fig. 2, Fig. 3, and Fig. 4, and the mode of throwing it either backward or forward, and holding it in either position by means of the wire-lever J, or its equivalent, the ends of said

lever being loose in perforations h and k.

Second, the middle projectile or tooth f, or its equivalent, as shown in Fig. 1, Fig. 2, and Fig. 4, which throws the hawk's-bill forward by gently pressing the base of the chimney upon it, independently of the upper projectile e, which secures the chimney to the burner.

Third, the position and the peculiar construction of the lever J, or its equivalent, as shown

in Fig. 1, and Fig. 2, which throws the hawk's-bill either backward or forward.

Fourth, the hawk's-bill B, or its equivalent, in combination with the mode of attaching it to the burner without solder by means of the bolt supports d formed in the shell of the burner, as shown in Fig. 5, the whole being arranged substantially as and for the purpose herein described.

No. 37,120.—WILLIAM J. WILCOX, of New York, N. Y.—Improved Apparatus for Re, fixing Lard.—Patent dated December 9, 1862.—This invention consists in the applicationin an apparatus for refining lard, of a worm enclosed in a cask which can be wholly or parin an apparatus for reining land, of a worm enclosed in a cask which can be wholly or partially filled with cold water, the said worm being connected at one end to a pipe leading from the bottom of a heating pan, and at the other end to a spout discharging into the cooling vat in such a manner that the lard in passing from the heating pan to the cooling vat is cooled down to such a degree that very little stirring in the cooling pan is needed to bring the lard to the desired consistency. A regulating cock is inserted into a pipe leading from the bottom of the cask which contains the worm to the waste or overflow pipe, so that the quantity of water in the cask, and with it the temperature of the lard passing through

the worm, can be regulated.

Claim.—First, the application or use, in combination with an apparatus for refining lard, of a worm C enclosed in a cask D, constructed and operating substantially as and for the

purpose herein described.

Second, the arrangement of the regulating cock g, in combination with the worm C, cask D, overflow pipe e, heating pan A, and cooling vat E, all constructed and operating as and for the purpose specified. Digitized by GOOGIC

No. 37,121.-F. R. WILSON, of Auburn, Cal.-Improved Device for Shrinking Tim. Patent dated December 9, 1862.—Upon a suitable bed or base plate are placed two in each formed by two parts connected by a pivot so as to act both as levers and jaws. The outer or free ends of the parts of the levers are connected by rods to a centrally piveted D, the axis or pivot of which has a lever E fitted upon it. On the base plate is paid to trally and longitudinally a guide, on which two slides are placed and allowed to move form and to the inner end of each slide is attached a segment guide J, one of which guide convex and the other a concave face side.

Claim.—The jointed levers B B, in combination with the adjustable guides J J, the in B B being connected to a pivoted bar D having a lever E attached, and all arrange k

operate as and for the purpose herein set forth.

No. 37,122.—WILLIAM W. WRIGHT, of Killingly, Conn.—Shoe Knife.—Patent dis-December 9, 1862.—Secured to the side of the knife by means of a screw is a cir. guard which is set against and across the point of the knife, the said point resting in a - h . dent in the guard. The other end of the guard bears against an eccentric wheel or true of so arranged that by turning the latter the guard can be adjusted to the point of the bank when it becomes worn from use.

Claim.—Combining with the blade of the knife a guard and wheel or tumbler in the manner set forth, viz., by forming the guard as described, and screwing it to the base the knife with the dent in the flat end thereof on the point of the knife, and the but as in

other end thereof, resting on the wheel or tumbler, as described.

No. 37,123.—WILLIAM P. BARKER, of Grand Rapids, Mich., assignor to Himself, James VAN BUREN, and NELSON BLANCHARD, of Grand Rapids, aforesaid.—Improved Newfor Binding Grain.—Patent dated December 9, 1862.—This invention consists of a distribution of binding grain which may be connected to and arranged to operate in conjunction. an ordinary reaper, so that the grain as it is cut may be gathered into gavels and bounds sheaves, the latter being discharged from the machine, and the whole work performed and the whole wo matically and operated by the draught movement of the machine.

Claim.—First, the travelling or reciprocating hooks H H attached to the endless in E', in combination with the arm J'', provided with the nippers m m', and the elasticity.

C* attached to the bar A' and arm J'', all arranged to operate as and for the purpose.

forth.

Second, the shafts V W, the former being provided with the screw v, fork k', and '" latter being provided with the hook Y, knife or cutter X, and the fork w, said shade and the fork w, said shade and the fork w, said shade and the fork w. operated as shown, and in connexion with the arm J" and the cord or rope K, for the 1: pose specified.

Third, the combination of the hooks H H, arm J", provided with the nippers m m tic band C", shafts V W, and the cord or rope K, all combined and arranged to operate a

and for the purpose herein set forth.

No. 37,124.—Joseph H. Baird, of Waterbury, Conn., assignor to Jedediah Willing of New York, N. Y.—Improvement in Machines for Applying Clasps to Hoop Skirts.—It ent dated December 9, 1862.—This invention consists in the combination of a rest for hoops of the skirt with clasp-feeding and clasp-supplying a vices by means of a clasp-supplying ing device which receives the clasps in succession and carries them to the skirt hoop and presented to the machine. The clasp-carrier is so constructed and combined with the supplier that it not only carries the clasp, but also forms a gate which prevents the exof clasps from the clasp-supplier.

Claim.—The combination of a hoop-rest, a clasp-feeder, a clasp-supplier, and a nov-

clasp-carrier, the combination as a whole operating substantially as set forth.

Also, the combination of a clasp-carrier with the clasp-supplier in such a manner that the clasp-supplier in such a mann clasp-carrier forms a gate or stop to prevent the escape of clasps, the combination as a ** operating substantially as set forth.

Also, the combination of a clasp-carrier with the hoop-rest in such manner that the inf carrier forms one of the members by which the clasp is clinched upon the hoop.

No. 37,125.—WILLIAM F. COCHRANE, of Springfield, Ohio, assignor to Himself a:-WARDER & CHILD, of the same place.—Improvement in Machinery for Threshis, 49 Separating Grain.—Patent dated December 9, 1862.—This invention consists in Exercise the blades or floats of the fan directly upon the cross-shaft or counter shaft, from which it remainder of the mechanism is driven, thereby dispensing with an independent fan and much of its attendant mechanism. The blades or floats of the fan are divided in 5'41.3 manner that the driving or line shaft may pass between them, in order to drive the constant shaft from a point near its centre, so as to preserve the mechanism from torsion and sure The threshing cylinder is driven directly from the fan shaft.

Claim.—First, mounting the fans directly upon the cross-shaft or counter shaft ir which the remainder of the mechanism is driven, substantially in the manner described.

the purposes set forth.



Second, the combination of the line shaft, counter shaft, and fans, substantially as and for the purpose described.

Third, driving the threshing cylinder directly from the fan shaft, substantially in the

manner described.

No. 37,126.-WILLIAM F. COCHRANE, of Springfield, Ohio, assignor to Himself and WARDER & CHILD, of the same place. - Improvement in Machinery for Threshing and Separating Grain.—Patent dated December 9, 1862.—This invention consists in combining with the grain belt and straw carrier a picker shaft placed between the two and driven by gearing from the grain belt. Beneath the grain belt is located a supplementary spiked cylinder and concave, to receive the grain as it falls from the belt, and to thresh out any heads that may have escaped through the threshing cylinder. Beneath the supplementary cylinder is a series of inclined boards placed one above the other, so that the grain may fall from the cylinder upon them, and be exposed to the fan blast in passing from one board to another. Combined with the inclined board is a valve which regulates the force of the

blast passing between them.

Claim.—First, the combination of the grain belt, straw carrier, and picker shaft, when arranged and operated in the manner, and for the purpose set forth.

Second, a supplementary threshing cylinder that the grain belt for the purpose of threshing out any heads which may escape the threshing cylinder, when arranged and operating as herein described.

Third, the combination of the supplementary cylinder and the fans with the inclined boards J J', substantially in the manner described, for the purpose set forth.

Fourth, the combination of the inclined boards J J' and regulating valve K with the fans D, as described, for the purpose of regulating the blast, as set forth.

No. 37,127.—WILLIAM F. COCHRANE, of Springfield, Ohio, assignor to Himself and WARDER & CHILD, of the same place.—Improvement in Machinery for Threshing and Separating Grain.—Patent dated December 9, 1862.—This invention will be understood

from the claim and engraving.

Claim.—First, mounting the blades of the fans directly upon the counter shaft and inside

the driving pulley, substantially in the manner described, for the purpose set forth.

Second, driving the threshing cylinder directly from the fan pulleys, substantially as and for the purposes set forth.

Third, enclosing the main portion of the driving mechanism within the fan case, for the purpose described.

Fourth, making a portion of the fan case removable, as described, for the purpose of affording access to the driving mechanism.

No. 37,128.—WILLIAM F. COCHRANE, of Springfield, Ohio, assignor to Himself and WARDER & CHILD, of the same place.—Improvement in Machinery for Threshing and Separating Grain.—Patent dated December 9, 1862.—In this machine the driving or line shalt, through which motion is communicated to the machine from the prime mover, is mounted upon a loose bracket or bearing pivoted to the counter shaft, and capable of turning freely around it in a vertical plane, so that the position of the driving shaft may be varied without deranging the gearing. The swinging bracket is enclosed in the fan case in such a manner that, when in its lowest position, the bracket shall be supported by the fan case, and yet be free to play up and down within certain limits. Diagonal braces are placed on the front part of the frame, so as to obtain greater space for the play of the line shaft.

Claim. - First, mounting the line shaft, through which motion is communicated to the mechanism from the prime mover in or upon a swinging bracket pivoted to the counter shaft, and capable of twining freely round it in a vertical plane, substantially in the manner

described.

Second, enclosing the swinging bracket within the fan case, substantially in the manner

and for the purposes described.

Third, the use of diagonal bracing on the front end of the frame, in combination with a line shaft having vertical play, substantially as described and for the purpose set forth.

No. 37,129.—WILLIAM F. COCHRANE, of Springfield, Ohio, assignor to Himself and WARDER & CHILD, of the same place.—Improvement in Machinery for Threshing and Separating Grain.—Patent dated December 9, 1862.—In this machine the grain-belt frame is constructed of diagonally braced lattice work, held together by nuts and screw rods, so as to admit of its being readily taken apart and put together. Upon the upper surface of the bottom of the grain-belt frame is arranged a series of diverging scattering boards, for the purpose of distributing the grain upon the supplementary cylinder as it falls from the grain belt or straw carrier. The shafts and gearing by which the straw carrier and picker are driven are mounted in a solid metallic plate or frame on each side of the grain belt for the purpose of preventing the binding or straining of these parts of the machanics. purpose of preventing the binding or straining of those parts of the mechanism.

Claim.—First, the combination of the diagonal braces be and screw rods be be, with the

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longitudinal beams b, in the manner and for the purpose described.

Second, the combination of the dispersing boards and supplementary cylinder, subse-

tially as described and for the purpose specified.

Third, mounting the shafts and gearing by which the straw carrier and picker shaft an driven, in a solid metallic frame on each side of the grain-belt frame, as and for the purpose described.

No. 37,130.—WILLIAM F. COCHRANE, of Springfield, Ohio, assignor to Himself of WARDER & CHILD, of the same place. Improvement in Machinery for Threshing on Separating Grain.—Patent dated December 9, 1862.—This invention consists in mounts the fans directly upon the cylinder shaft and inside of the threshing cylinder, for the property of rendering the construction less expensive, and requiring less power in driving. It threshing cylinder is formed of parallel bars, and provided with jaws on its ends, and oblined with a blast spout so arranged that the air shall be drawn from the interior of the construction of the cons cylinder through the fans, and discharged through the blast spout upon the screen or riddles.

Claim.—First, mounting the fans directly upon the cylinder shaft, and inside the thresh-

ing cylinder, substantially in the manner described, for the purposes set forth.

Second, the combination of an open-barrelled cylinder having fans in its ends, with the blast spouts, when arranged and operating substantially in the manner herein described, in the purpose specified.

No. 37,131.—WILLIAM F. COCHRANE, of Springfield, Ohio, assignor to Himself and WARDER & CHILD, of the same place.—Improvement in Machinery for Threshing and Separating Grain.—Patent dated December 9, 1862.—This invention consists in forming 12 independent frame inside the grain-belt frame, so as to provide a space between them a which to locate the driving pulleys and winnowing spouts. In combination with this dense frame, the grain belt, straw carrier, beater, and picker are driven from the conveyer sha whereby the driving bands are kept inside the framing.

Claim.—First, constructing an independent frame or trough inside the grain-belt frame. substantially in the manner described, so as to form a space in which to locate the driver

pulleys, &c.

Second, in combination with an independent frame, driving the grain belt, straw care. heater, and picker from the conveyer shaft, substantially in the manner and for the purpose described.

No. 37,132.—WILLIAM F. COCHRANE, of Springfield, Ohio, assignor to Himself as WARDER & CHILD, of the same place.—Improvement in Machinery for Threshing as Separating Grain.—Patent dated December 9, 1862.—This invention consists in mountain the line shaft and driving gearing in a swinging jack of a peculiar construction, so a b allow the line shaft to play freely around the counter shaft in a vertical plane will deranging the gearing. Combined with the swinging jack are a horizontal and a vertical plane will driving shaft, so that the driving power may be applied either horizontally or perpendently to the mechanism, as may be required. The counter shaft is mounted in pipe but on which the bearings of the swinging jack turn, so as to relieve the counter shaft from the strain of the jack.

Claim.—First, the combination of the counter shaft and swinging jack, when arranged

and operating substantially as and for the purpose set forth.

Second, the combination with a swinging jack of both a horizontal and a vertical diving

shaft, substantially in the manner and for the purposes described.

Third, the combination of the pipe boxes, in which the counter shaft turns with the is branches of the swinging jack, substantially in the manner described, for the purpose of relieving the shaft from the weight of the jack, as set forth.

No. 37,133.—JACOB H. HARNLY, of Penn Township, Pa., assignor to Himself, Jacob HARNLY, G. R. HENDRICKSON, and H. B. DUNLAP, of same place.—Improved Mode of Operating the Raking Attachment on Harvesters.—Patent dated December 9, 1862.—Refer. ence to the specification and drawings will be necessary for a description of this invention.

Claim.—First, the combined action of the crank arm and its clutch C, by means of the spring c pressing it against the lugs on the axle a and the terminus of the rod E, connectwith the ratchet lever D g pressing the clutch out, thereby jointly controlling the crack motion.

Second, the combined foot lever G, with its rod F, operating against the jointed nice. lever E D q, for regulating the speed of the rake at will, applied in the manner specified

Third, the rack bar B, with its hook at one end and eccentric attachment to the ax'e ! the other, in combination with the ratchet lever D q, click rod O, and connecting not M arranged in the manner and for the purpose specified.

Fourth, the rock shaft U, with its curved rake support W, in combination with the rod P, rods O M, and notched post t operating in the manner and for the purpose space. Fifth, the arrangement and combination of the crank arm C with the connecting role & vibrating bar I, and notched spring rod or holder z, all operating in unison with the 34 bar B by the revolution of the driving wheel on its axle A, in the manner set forth.

No. 37,134.—George H. Johnson, of New York, N. Y., assignor to Himself and W. S. Sampson, of the same place.—Improvement in the Construction of Grain Bins.—Patent dated December 9, 1862.—This invention consists in the employment of auxiliary cylindrical bins, in combination with the principal bins, when the latter are so arranged as to have their sides come about in contact, and the former are arranged so as to occupy the spaces between the larger bins. Ventilating flues or columns are formed of the several spaces left between the series of cylinders. With the series of bins are combined horizontal bond plates, so constructed and arranged as to unite or lock together the several bins or cylinders.

Claim.—First, the combined arrangement of the smaller cylinders B with the larger ones A, for the purpose of utilizing the space between the larger ones for st rage purposes, and rendering the whole structure more capable of sustaining the pressure of the contents of the

cylinders, substantially as described.

Second, the method of interlocking the layers of horizontal bond plates a b, in the manner

and for the purposes described.

Third, the employment of ventilating flues C, in combination with the grain bins, substantially as described.

No. 37,135.—Samuel N. Long, of Chatham, Mass., assigner to the Chatham Lock COMPANY, of same place.—Improved Lock.—Patent dated December 9, 1862.—This invention consists in constructing the key of the lock with a sliding bit, and having the pin or pintle on which the key turns in locking and unlocking the lock of such a shape as to form a cam which, as the key is turned, will throw the bit and cause the latter to act upon the bolt, which is constructed of a series of tumblers.

Claim.—The bolt C formed of a series of tumblers a, in combination with a key provided with an extension bit F and a cam-shaped pin or pintle D, or its equivalent, all arranged as

and for the purpose set forth.

No. 37,136.—Moses Marshall, of Lowell, Mass., assignor to S. S. Bucklin, of Brook line, Mass.—Improvement in Machines for Pegging Boots and Shoes.—Patent dated December 9, 1862.—This invention consists in surrounding the piston by a cylinder or sleeve, against which the upper end of the spring abuts, whereby an increase of space for the accommodation of the spring is obtained, and the piston, no longer connected directly to the spring, may at any time be withdrawn by removing the screw by which it is connected to the sleeve, while the body of the machine, no longer being required to accommodate the entire length of the spring, may at the same time be shortened.

Claim.—The combination of the sleeve G with the plunger B and spring C operating in

the manner substantially as described.

No. 37,137.—JOHN McCall, of London, England, and Bevan G. Sloper, of Walthamstow, England, assignors to J. and W. J. Underwood, of Boston, Mass.—Improvement in the Preservation of Articles of Food.—Patented in England October 24, 1861.—Patent dated December 9, 1862.—This invention consists in introducing into the cans some material or composition for which oxygen has a greater affinity than for the meat or other article of food to be preserved.

Claim.—The within described process of preserving articles of food by the introduction of sulphite of soda, or its equivalent, into the cans in which the articles are preserved, in the

manner and for the purpose herein described.

No. 37,138.—Franklin Perrin, of Cambridge, Mass., assignor to Himself and David C. Perrin, of Roxbury, Mass.—Improved Manufacture of Palm Leaf Fabric.—Patent dated December 9, 1862.—This fabric is composed of a warp of spun thread and a west of narrow

strips or bands of palm leaf.

Claim.—The new or improved fabric or manufacture, as made with warps of spun thread in pairs, and its west of strips of palm leaf, arranged together, substantially as described.

No. 37,139.—WILLIAM S. SAMPSON, of New York, N. Y., assignor to Himself and G. H. JOHNSON, of same place.—Improvement in the Construction of Fire-proof Grain Bins.—Patent dated December 9, 1862.—This invention consists in constructing a grain bin of bricks formed with tongues and grooves so as to interlock laterally, in combination with retaining plates of iron and tie rods for holding the brick-work together vertically.

Claim.—Forming the bricks or block of composition with tongues and grooves, or their equivalents, substantially as described, in combination with the plates B and rods a, as and

for the purposes hereinbefore fully described.

No. 37,140.—Abner C. Ainger, of Stockholm, N. Y., and Samuel W. Webster, of Same place, assignors to Samuel W. Webster, of Stockholm, N. Y.—Improvement in Cheese Frames.—Patent dated December 9, 1862.—This apparatus consists of a movable frame provided with shelves for holding the choese. This frame is pivoted to a stationary frame in such a manner as to admit of its being turned in a vertical plane. Upon one side of the pivoted frame is secured a block, to prevent the cheeses from falling out in turning.

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Claim. -The removable back h i, constructed as described, and employed in connect with the pivoted frame def. in manner substantially as and for the purposes set forth.

No. 37,141.—ELBERT S. MAYNARD, of Hancock, N. Y.—Improved Sleigh Brake.—Pairal dated December 9, 1862.—This invention consists of a roughened slide, which is attached to one arm of a lever, the said lever being operated by means of bars connecting with the tours of the sleigh. One of these bars is provided with teeth acting upon a cogged where: operating a corresponding series of levers on the opposite side of the sleigh. By the and a of the team upon the tongue the roughened slides are caused to project below the runners of the sleigh.

Claim.—The combined arrangement of the brake A, with lever B B, and jointed bars P I. when connected with the cogged wheel Q, and roller moving in the slot D. the whole opera-

ting and constructed in the manner described.

No. 37,142.—LEVI F. SMITH, of Stonington, Conn.—Improvement in Tool for Forming the Necks of Bottles.—Patent dated December 9, 1862.—The object of this implement is to form upon the inside of bottle necks, shoulders against which elastic stoppers may catch, to prevent them from being too easily forced out, which is effected by means of a centre piece of the form shown in the engraving, attached to a stem passing centrally between the jawsola bent spring. To this stem is also pivoted a lever, one end of which passes through a loop formed upon one of the slides of the bow.

Claim.—First, the lever E, constructed, used and operated substantially as and for the

purpose specified.

Second, the combination of the lever E with the centre piece D, the several parts being arranged as specified for forming shoulders in bottle necks, as set forth.

No. 37,143.—George G. Evans, of Philadelphia, Pa.—For Shoulder Strap Case.—Patent dated December 9, 1862.—This invention consists in an arrangement of a border plate or frame, a detachable back plate, and certain other attachments, for the purpose of enabling s shoulder strap to be readily connected with and disconnected from the shoulder part of the coat, and also to enable the border plate to be readily detached from the strap for the purpose of being cleaned.

Claim.—First, the combination of the border plate A, the detachable back plate B, the stude c, and eyelets c, arranged and operating substantially as described.

Second, in combination with the above, the stud composed of the slotted link L, tube a spring n, collar P, and screw R, substantially as described.

No. 37,144.—JOSEPH RIDGE, of Richmond, Ind.—Improved Lamp for Burning Kerosen or Coal Oil.—Patent dated December 9, 1862.—This invention is designed as an improvement upon a lamp for which a patent was granted to the said Ridge on the 15th day of April, 1302 and it consists in uniting the diaphragm and cylinder in one piece of glass and combining the same with the base and metallic frame, support and guard, and a short chimney.

Claim. - First, the diaphragm D and cylinder M, united in one piece of glass, substantially as represented, and constructed in the manner and for the purpose herein set forth.

'Second, the said diaphragm and cylinder in combination with the base and metallic frame. support and guard, and short chimney C, substantially in the manner and for the purpose represented by the drawing and model, and set forth in this specification.

No. 37,145.—ELIJAH D. WILLIAMS, of Philadelphia, Pa.—Improvement in Elongdel Bullets.—Patent dated December 9, 1862.—This invention consists in the combination with an elongated expanding bullet of a headed pin and a concave expanding disk, the disk having its concave side against the base of the bullet and the pin entering the cavity thereof, and operating to produce the flattening of the disk by which it is caused to expand against the walls of and enter the rifle grooves of the gun.

Claim.—First, the combination with elongated expanding bullets of a pin C and expanding

disk B, applied and substantially as herein specified.

Second, fitting the pin to the cavity of the bullet in the manner substantially as here: specified, whereby the expansion of the bullet is caused to commence in the front part of its expanding portion and to be gradually continued toward the rear, as herein set forth-

No. 37,146.—JAMES E. ATWOOD, of Washington, D. C.—Improvement in Knapseck (scharge,—Patent dated December 16, 1862.—This invention consists in attaching to the upper edge of an ordinary knapsack a heavy leather collar made to fit closely around the neck, and the ends extending down in front, to which straps may be attached.

-The use of a stiff leather collar constructed as described, when combined and are

ranged in the manner set forth, with a knapsack.

No. 37,147.—P. J. BERLIN, of Blairsville, Pa.—Improved Portable Cider Mill.—Patent dated December 16, 1862.—This invention consists in the employment of a scraper, which is attached to a lever that has an oscillating movement imparted to it by means of a wiper projecting from the master wheel, and which comes in contact with a spring lever once in call revolution of the master wheel, for the purpose of cleaning or scraping off the pomere free the crushing roller at certain intervals. Digitized by GOOGIC

Claim.—The arrangement of the stripper D, oscillating lever l, spring lever m, and crushing rollers d d' with the wiper m and master wheel, in the manner herein shown and described.

No. 37,148.—MURRIN BURR, of Plymouth, Mass.—Improvement in Fanning Mills and Grain Separators.—Patent dated December 16, 1862.—The nature and object of this inven tion will be understood by reference to the claim and engraving.

Claim.—The arrangement of the horizontally-vibrating shoe D and the screen L, having

an independent, vertical, reciprocating movement, for the purpose of agitating it sufficiently

to discharge the foul seed and to prevent it from choking, as herein set forth.

Also, in combination with the screen L, the segments M M or their equivalents, pivoted to the shoe and having shanks it resting in sockets of retaining cross-pieces P P, for the purpose of giving a reciprocating vertical movement to the said screen with the horizontal vibrations of the shoe, substantially as herein specified.

Also, the arrangement of the double-inclined spout R, spaces r between the shoe and the walls of the mill, and seed receptacle v, so arranged as to discharge the foul seed around the

lower screen U and collect it, substantially as herein described

Also, the arrangement of the screen U, ledges tt, segments M' M' or equivalents, and blocks s s arranged in connexion with the shoe D, and walls B B of the mill, as herein specified.

No. 37,149.—David W. Canfield, of New York, N. Y.—Improvement in the Combined Shoulder Brace and Suspender.—Patent dated December 16, 1862.—This invention consists in a method of arranging and combining the several straps and pieces of which the combined shoulder brace and suspender is composed, so as to serve as an effective shoulder brace and to support the pantaloons or other garment.

Claim.—The combined shoulder brace and suspenders, composed of the shoulder straps A A, back straps C C, front straps D D. and end pieces a a and c c, the whole arranged and com-

bined as herein set forth.

No. 37,150.—MATTHEW CHAPMAN, of Greenfield, Mass.—Improvement in Attaching Handles to Knizes.—Patent dated December 16, 1862.—The handle of the knife or other article is slotted longitudinally a certain distance from its inner end, and the knife or other article is provided with a flat tang equal in length to the said slot, the end of the tang having a V-shaped notch which is made to fit a corresponding projection in the slot, the parts being secured

together by rivets.

Claim.—The flat tang C of the implement, provided with a V-shaped notch a at its end,

The flat tang C of the implement, provided with a projection a in combination with the rivet D, and the slot b, in the handle B, provided with a projection c at its bottom, of such a shape as to fit into the notch a of the tang, substantially as and for

the purpose herein specified.

No. 37,151.—JAMES M. CLARK, of Lancaster, Pa.—Improvement in Alarum and Indicating Apparatus for Grinding Mills.—Patent dated December 16, 1862.—This invention consists in the application to a grinding mill, of an apparatus which, in a locality distant from the millstones, shall indicate the run of the stones and condition of the feed, together with an alarm which shall indicate any variation in the speed of the runner and condition of the grind-

ing from that desired by the attending miller.

Means are also provided whereby a variation in the speed of the runner and the flow of the feed may be properly regulated upon an alarm or indication being given to the miller that the

grinding is not being properly done.

The construction does not admit of a brief description.

Claim.—First, the mode substantially as described of attaching the cross-tie r, and lever E, to the hoop d, for the purpose specified.

Second, a revolving grain cup or disk H, having couplings or lugs h', and an attached

tube r6, in combination with the rhine e.

Third, applying to millstones a silent feed which is not affected by the act of setting the stones to grind either coarse or fine, substantially as described.

Fourth, suspending the revolving cup or disk II, from the cross-tie r, by the tube r8, or its

equivalent, in the manner and for the purpose set forth.

Fifth, suspending the stationary grain guard H' over the eye of the stones, and so that it may be removed therefrom with the cross-tio r, for the purpose set forth.

Sixth, the combination and arrangement of the lever E, cross-tie r, and hoop a, substantially in the manner and for the purpose set forth.

Seventh, the combination of the feed-lever rod m', and rod m2, substantially as and for the purpose set forth.

Eighth, operating an alarm and also an indicating apparatus, by means of a shaft which receives motion directly from the central portion of the millstone "runner," for the purpose specified.

Ninth, the combination of the alarm apparatus and the indicating apparatus with the cen-

trally located shaft i2, substantially as described, and for the purpose set forth.

Tenth, a lighter staff j, in combination with the screw shaft m, substantially as described. Eleventh, the head blocks 1 1 2. whether stationary or adjustable, in combination with the "way," L, substantially as described, for the purpose set forth. Digitized by GOOGLE Twelfth, applying to the bell shaft K' a belt arm z5 and bell B', which, by their catrifugal action, effect the alarm, in conjunction with head-blocks 1 and 12 or their equin-

lents, substantially as described.

Thirteenth, in a bell which constitutes a part of a centrifugal governor, so hanging the "clapper" on a pivoted spring arm that it has unobstructed freedom to move back and forth in the line of rotation of the bell, against the inner side of the bell, but is prevented from coming in contact with the bell in a direction at right angles thereto, substantially as described.

No. 37,152.—GILBERT M. COLE, of Folsom City, Cal.—Improved Mode of Operating Rail-road Pumps.—Patent dated December 16, 1862.—This invention consists in the application of steam from the boiler of a locomotive to operate the piston or pistons of one or more cylinders connected with suitable mechanism with the plunger of a pump, so that when the locomotive arrives at a watering station the steam cylinders may be placed in connexion with the locomotive boiler, and the pump thus operated by steam instead of hand power to fill the tender.

Claim.—The application of one or more cylinders D, which are supplied with steam from the locomotive through pipes c c', in combination with the pump B, as and for the purpose shown and described.

No. 37,153.—Nelson Cross, of New York, N. Y.—Improved Expanding Bedsteal—Patent dated December 16, 1862.—The frame of the cot or lounge is constructed of a series of side and cross levers or bars so arranged that by a single movement the whole may be fully extended or folded compactly together.

extended or folded compactly together.

Claim.—The combination of the side and cross levers or bars with the canvas top or bed piece, as and for the purpose aforesaid.

No. 37,154.—Augustus B. Davis, of Philadelphia, Pa.—Improved Strew and Grain Squarator for Threshing Machines.—Patent dated December 16, 1862.—Above the perforated platform of the shaker frame are a series of shafts, each shaft having its bearing in the opposite boards of the frame, and furnished at one end with a pinion having its end projecting beyond the frame. These shafts are provided with curved teeth and are termed "rocking rakes."

The pinions of part of the shafts gear into racks secured to the under side of the upper bar of the reciprocating frame, while the pinions of the other shafts gear into similar racks secured to the upper side of the lower bar of the same frame, so that as the rack frame reciprocate, the curved teeth of the first named shafts will vibrate in one direction simultaneously with the vibration of the arms of the latter named in the opposite direction.

Claim.—First, separating the straw from the grain in threshing machines by means of a series of rocking rakes, arranged in respect to and operating in unison with each other, substantially as set forth.

Second, imparting the desired motion to the said rocking rakes by means of reversed racks, arranged on a reciprocating frame, in relation to pinions on the shafts of the said rakes, substantially as set forth.

No. 37,165.—WILLIAM DENKMAN, of Washington, D. C.—Improvement in Hot Air or Caloric Engines.—Patent dated December 16, 1862.—This invention relates to a caloric engine in which the air is heated in chambers separate from the driving cylinder one stroke or more in advance of the time at which it is used, and at the instant required is applied in full force to the driving piston. In combination with the above is an air-pump to supply the said heating chambers with cold air.

Claim.—The use of a plurality of separate heating chambers, operating successively in contract the said of the contract of the said that the contract of the said that t

Claim.—The use of a plurality of separate heating chambers, operating successively in connexion with each working end of the driving cylinder K, substantially as set forth, to admit of heating the air in advance of the time at which it is used.

Second, an air-pump L, employed in combination with heating chambers, substantially set forth in the foregoing claim, to supply the said chambers successively with cold air.

No. 37,156.—JACOB DUNTON, of Philadelphia, Pa.—Improved Tourniquet.—Patent dated December 16, 1862.—This device consists of a series of slotted plates to the opposite sides of which are attached straps and used in connexion with pads, all so arranged as to enable the same to be readily adjusted to suit the size of different limbs.

Claim.—The combination of the adjustable slotted plates A A A' A', pads F F', and straps G G', as set forth.

No. 37,157.—James B. Eads, of St. Louis, Mo.—Improved Wave Propellers for Stallow Water.—Patent dated December 16, 1862.—This invention consists in the use of a chamber filled with water by atmospheric pressure, above the level of the water in which the vessel floats, and in using a large propeller on vessels of light draught, the propeller finding a resisting medium in the wave or column of water thus made in the chamber which shall entirely or nearly so, cover it.

or nearly so, cover it.

*Claim.—Providing light-draught vessels with a chamber, in which the propeller works when said chamber is filled with water by atmospheric pressure, to a height above that of the

water in which the vessel floats, for the purpose and in the manner substantially as herein described and represented.

No. 37,158.—ROBERT NELSON EAGLE, of New York, N. Y .- Improvement in Riding Stirrups and their Covers.—Patent dated December 16, 1862.—The nature and object of this invention are explained by the claim.

Claim.—First, giving any desired longitudinal, lateral, or oblique inclination to the tread of a stirrup (with arms of equal length or with the inner arm the shorter,) by means of the

location given to the point of suspension, substantially as hereinbefore described.

Second, a metal cap or its equivalent employed to connect the arms of a stirrup, and constituting the means of attaching the suspending straps, and for confining the upper part of the cover, when one is used.

Third, a cover composed of two or more pieces of leather or its equivalent, and applied sub-

stantially as hereinbefore described.

Fourth, the combination of the rawhide or pelt with the frame or body of a stirrup, substantially as and for the purposes specified.

Fifth, the arrangement of the shaft H, in inclined positions, as represented in Fig. 6, and described, for the purposes specified. Sixth, the combination of an adjusting suspension with a stirrup or its cap, substantially

as and for the purposes set forth.

Seventh, giving to the sides or arms of a stirrup, whether of wood or other material, an oblique direction in front, and a perpendicular direction or line in rear, substantially as represented in Fig. 4, or the converse or described equivalent thereof, for the purpose specified.

No. 37,159.—GILBERT C. EATON and SAMUEL W. TURNER, of Cleveland, Ohio.—Improvement in Centrifugal Guns.—Patent dated December 16, 1862.—This invention relates to the construction of an engine by means of which balls of various sizes may be discharged by compound centrifugal force alone, the balls being introduced between two grooved arms which revolve with great velocity, and unitedly form what is denominated the barrel, the several parts being so arranged that any desired altitude or range can be given to the . projectile.

Člaim.—First, the stirrup I and bridge-tree I', in combination with the plate G and turn-

table G', arranged as specified, for the purpose of giving horizontal range to the ball.

Second, the turn-table G', in combination with the articulation K' K", for the purpose set forth.

Third, the frame M M', in combination with the articulation K' K", for giving altitude

to the projectile, as specified. Fourth, the arms TT', operating in concert within the frame MM', for the purpose specified.

Fifth, the stops gh, operated as and for the purpose set forth.

Sixth, the clutches p and weighted lever p', in combination with the cam W, arranged and operating as and for the purpose specified.

No. 37,160.—WILLIAM S. EAGLE, of Brooklyn, N. Y.—Improved Mode of Teaching Field Exercises and Evolutions in Military Tactics.—Patent dated December 16, 1862.—This invention consists in the employment of rectangular blocks representing military figures or companies in line, and detached figures representing officers and privates, whereby a person may practice all the movements of the privates and officers both in battalion and company drill.

Claim.—The employment or use of the military figures or pieces representing privates and officers pertaining to a battalion or regiment, for the purpose herein specified.

No. 37,161.—WILLIAM B. EVANS, of Holderness, N. H.—Improvement in Circular Knitting Machines.—Patent dated December 16, 1862.—The object of this invention is to provide for the easy insertion and removal of the needles of a circular knitting machine, and to this end it consists mainly in a peculiarly constructed grooved conical needle plate, and a needle operating ring working in combination with the said needle plate.

Claim .- First, the combination of the needle plate A, having its face composed of two conical surfaces bc, and cylindrical surface d, and needle grooves cc, opening into the said cylindrical surface, and the two rings BC, having between them an open space ss opposite to the openings of the grooves in said cylindrical surface, substantially as and for the purpose herein specified.

Second, the plate L, applied in combination with the said needle plate and the ring B,

substantially as and for the purpose herein specified.

Third, the inclined surfaces g'g' provided on the ring C, substantially as and for the purpose herein specified.

No. 37,162.—George W. Fosdick and John Crawford, of Dowagiac, Michigan.—Improved Machine for Threshing and Hulling Clover-seed.—Patent dated December 16, 1862.—The novelty of this invention consists in the arrangement of parts named in the claim and shown in the engraving, by means of which clover-seed may be threshed for

the straw, and the latter separated from the heads, and the seed also separated from the buse Claim.—The arrangement of the threshing cylinder D, concave C, picker R, apon E screen F, and pendants f, with the carrier G, in the manner herein shown and described

Also, the combination of the parts above mentioned, when arranged in the manner stard with the apron H, hulling cylinder I, shoe L, fan P, and elevator N, as herein shown at described.

Also, the arrangement of the apron H and boards m K with the concave J, cylinder I, and shoe L, in the manner herein shown and described.

No. 37,163.—James M. French, of East Cambridge, Mass.—Improvement in Iron Belsteads.—Patent dated December 16, 1862.—This bedstead is constructed with separate head and foot frames, and so that each of them shall have two mortises for the reception of tenus projecting from the two rails. Each of the rails is also provided, at the side of each of the tenons, with an auxiliary overlapping barrier, which, when the rail is inserted in the heal and foot frames, overlaps the inner surface of the part in which the mortise is formed and abuts against the inner side of the adjacent cross-rail of the posts of the frame.

Claim — The improved bedstead as made not only with its angle iron rails BB and had and foot frames connected by tenons and mortises, but with each of the said rails funi-bil with bearers e.e., constructed and arranged with respect to the tenons and mortises, and the lower bars of the head and foot frames, in manner and so as to operate therewith, substan-

tially as specified.

No. 37,164.—WM. W. GINGRICH and C. S. COATES, of Mexico, Pa.—Improvement in Mail-bag Locks.—Patent dated December 16, 1862.—This lock is composed of two java which are provided with plates and catches, in connexion with springs, so arranged that the

mouth of the bag may be locked at several points at one time.

Claim.—The arrangement of the jaws AB, the plates ED, and the springs s, m, i, and a the several parts being constructed and used for locking the mouth of the bag at several

points at one time, as herein fully set forth.

No. 37,165.—Samuel P. Garv, of Oshkosk, Wis.—Impresement is Gearing for Schinery.—Patent dated December 16, 1862.—Supported in bearings upon a proper frame is a shaft D, having a universal joint at its inner end which will allow an inclination of the shaft at that point to a limited extent in any direction; and upon this shaft, beyond the universal joint, is secured a bevel wheel C, which is provided with teeth that gear with an internal bevel wheel B. In the centre of the wheel B is a hole, through which the shaft D freely passes. In a line with the shaft D is a shaft E, enlarged at its inner end, and provided with a hole to receive a pin projecting from the centre of the wheel C, at right-anges to its rear side, thus forming a crank upon the end of the shaft E.

Claim.—The combination of the stationary wheel B with the revolving wheel C, the points

G, and the crank H, for the purpose of transmitting rotary motion from the shaft D to the

shaft E, or the reverse, substantially as herein set forth and described.

No. 37,166.—H. I. HEATON, of Peoria, Ill.—Improved Cultivator.—Patent dated Decerber 16, 1862.—This invention consists in the arrangement of two sliding bars in connexion with the tongue and a lever, so that by means of the latter the said bars can both be moved in the same direction, and also the rear end of the draught-pole. At the rear part of the machine are the frames J J, to which the ploughs are attached, the said frame being connected at one end by means of chains to a shaft provided with a lever, by moving when

latter the ploughs can be raised from the ground more or less, when desirable.

Claim.—The arrangement of the sliding bars C C', draught-pole D, bar E, and lever f. in connexion with the frames J J, having the ploughs P attached, all arranged as and lever f.

the purpose herein set forth.

No. 37,167.—P. L. HOWLETT, of Springfield, Ill.—Improved Apparetus for Distilling Alex hol, &c.—Patent dated December 16, 1862.—This invention consists in the arrangement an extractor with one or more heating tubes, in combination with the ordinary sin and doubler in such a manner that the steam emanating from the still, in passing through tube or tubes of said extractor, is capable of heating and vaporizing the first wile, w. on leaving the doubler, is returned to the extractor by dry heat and without impuring any more water than it already contains, and thus the first wine is converted into a --without requiring any further distillation or additional expenditure of fuel. A cyanalar vessel having three compartments and provided with heating tubes is combined with a dia a doubler, two condensing coils, two reservoirs and a pump, in such a manner that the new wine can be readily returned to the middle compartment of the cylindrical vessel or extracted when it is vaporized by the action of the steam passing through the heating tubes, and coverted into alcohol without any additional fuel or steam.

Claim.—First, the arrangement of one or more heating tubes i in the extractor B, in combination with the still A and doubler C, constructed and operating substantially as and for

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the purpose specified.

Second, the arrangement and combination of the compartments $f \in h$ in the extractor B, pipes a and b, heating tubes i, still A, doubler C, worms c and m, troughs D and F, and pump E, all constructed and operating as and for the purposes shown and described.

No. 37,168.—Daniel Hunsicker, of Laurelton, Pa.—Improvement in Water Motors. Patent dated December 16, 1862.—This invention consists of an endless chain, provided with hinged floats and working over a rotating block, which is caused to turn as the floats are propelled by the water, the endless chain being provided with guide rollers, working between guide pieces, to keep the endless chain in a proper position while it is propelled by the water.

Claim.—The endless chain provided with hinged floats and arranged to work over a

rotating block, substantially as described.

Also, in combination with the endless chain and floats, the guide rollers M M, and the guide pieces N and P P, for the purposes set forth.

No. 37,169.—BENJAMIN IRVING, of New York, N. Y.—Improvement in the Manufacture of Skates.—Patent dated December 16, 1862.—This invention is explained by the claim.

Claim. - As a new article of manufacture an improved skate, the runner or shoe of which is made of a plate of steel, with a narrow groove near each edge, when the body or frame of the skate is made of iron or some other softer metal or material, and when said frame is adapted equally to either foot as herein described

No. 37,170.—JEREMIAH KEITH, of New Bedford, Mass.—Improved Machine for Punching and Eyeleting Shoes.—Patent dated December 16, 1862.—This machine is composed of a vibrating hopper or magazine supported upon an inclined platform which is pivoted to the sides of the box so as to admit of a vertical tilting movement. The said magazine is pro-Attached to a standard is the eyelet retainer E, consisting of a flexible spring so arranged as to retain the lower eyelets in a proper position to be seized by the carrier. To the upper end of a vertical slide bar is a jointed bifurcated bar provided with a block which carries a punch L, on one of its ends, while its opposite end is provided with an upsetter formed of a cylindrical piece of metal having a pin projecting from its end, which pin, when brought down, prove the eye of the eyelet a flat surface, or shoulder serving to compress the eyelet property. enters the eye of the eyelet, a flat surface or shoulder serving to compress the eyelet upon its top surface. The machine is designed to punch the holes for the eyelets, and also to introduce and properly fasten the eyelets in a shoe or other article.

Claim.—An improved punching and eyeleting machine, the same consisting of the vibrating hopper or eyelet magazine C, the inclined director D, the eyelet retainer E, the rotary punch L, and upsetter L², the rotary punch bed t, and the eyelet separator and carrier u, the whole being constructed and made to operate substantially as set forth.

Also, the combination of the rotary punch L and upsetter L², with the rotary punch bed t, and the eyelet separator s, the same being arranged substantially as set forth.

Also, the combination of the magazine C, the conductor D, the retainer E, the revolvable eyelet separator and carrier u, and the upsetter L3, the same being arranged and made to operate as set forth.

No. 37,171.—Daniel Kelly, of Grand Rapids, Mich.—Improved Device to be Attached to Muskets and Rifles for Tearing Cartridges.—Patent dated December 16, 1862.—This device is composed of a metal ring or band, fitted tightly to the band of the gun near the muzzle, and provided with two horns, between which is a tooth, made in the same piece and projecting radially from it, the horns being at such a distance apart as to receive between them the fold of the paper which closes the cartridge.

Claim.—A cartridge-tearer composed of a ring or band with two horns a a, and tooth c, between the horns; said horns, tooth, and ring being all made in one piece and operating as

herein set forth.

No. 37,172.—ISAAC LAMPLUGH, of Peoria, Ill.—Improvement in Claw Bars.—Patent dated December 16, 1862.—In the heel of the spike drawer is formed a recess to receive the head of a spike which is to be withdrawn, and in connexion with the recess is a vertical slot of sufficient width to receive the spike. In the act of withdrawing the spike, the fulcrum point of the arm is gradually moved forward so as to preserve the vertical position of the

spike, thus preventing it from being bent.

Claim.—The shifting fulcrum arm E, having an auxiliary bearing point d, in combination with the slot b, recess a, and the heel H, in the manner and for the purpose substantially as

described.

No. 37,173.—EDWARD LINDNER, of New York, N. Y .- Improvement in Air Guns .-Patent dated December 16, 1862.—The nature of this invention will be understood from the

claim and engraving.

Claim.—First, the formation of a lever constructed conformably in shape with the handle or stock of the gun or pistol, and so arranging and combining with it a piston and spring as to compress the latter by direct action on the piston rod, substantially as herein shown and described. Digitized by GOOSIC

Second, the combination with a cylinder in which the air is compressed as described do piston with an automatically expanding packing as herein shown and set forth.

Third, the formation of an annular recess at the joint of the barrel with the breech a . combination with a projecting India-rubber ring, whereby an air-tight joint is effected at stantially as herein described.

Fourth, providing the cylinder containing the air-compressing piston with an aperture and slide-valve, or any equivalent means of adjusting the size of the said aperture, to regard

late the size of the vent or the force of compression as herein described.

Fifth, the construction of the projectiles with an elastic and expanding back or bottom, whereby in air pistols or guns rifled barrels may be used to insure accuracy of aim as here's described.

No. 37,174.—WILLIAM McConnell, of Philadelphia, Pa.—Improved Ash Sifter.—Patent dated December 16, 1862.—This device is composed of a hopper provided with a hinged cover and sieve, and hung near its lower end to a bracket secured to a wall, so as to simit of the hopper being freely vibrated. At the lower end of the hopper is attached a cursin of any suitable fabric so as to enclose the upper part of the ashes receptacle.

Claim.—First, a hopper A of any suitable form, provided with the lid a, or its equivalent, and sieve b, when the whole is so connected to a permanent bracket B, or its equivalent a

to be readily vibrated.

Second, in combination with the vibrating hopper, a curtain D of such shape and dimensions as to enclose the mouth of the receptacle for the ashes without interfering with the free movement of the hopper.

No. 37,175.—MARCUS P. NORTON, of Troy, N. Y.—Improved Post-marking and Canaling Stamps.—Patent dated December 16, 1802.—This invention is explained by the claim Claim.—First, the cancelling device C, having on the face or lower surface thereof knive or cutters, and a guard or guards in combination with each other, by means of which the postage stamp is cancelled by the said cutter, and at the same time prevent any injury to the letter or any contents therein from the said knives or cutters by means of the said guard or guards, substantially as herein described and set forth.

Second, the combination of the cancelling-stamp C and the post-marking or rating-stamp D with the cross-piece B, substantially as and for the purpose herein described and set forth.

No. 37,176.—Nelson Peck, of Jay, N. Y.—Improved Earth Scraper.—Patent dated December 16, 1862.—This invention is designed as an improvement upon a machine or which a patent was granted to the said Peck, on January 3, 1860, and it consists in an arrangement of levers with the draught pole and axle, by which the scraper is lowered and raised when required to perform its work and discharge the load.

Claim.—The combination of the scraper C, draught-pole D, axle A, and levers E E E

all arranged to operate substantially as and for the purpose herein set forth.

No. 37,177.—BENJAMIN L. PHILLIPS, of Providence, R. I.—Improvement in Party graphic Engraving Machines.—Patent dated December 16, 1262.—This invention relates to improvements in pantographic engraving machines which are more particularly used in engraving or tracing designs on cylinders for the use of printers on calico and other fabric-The invention does not admit of a brief description.

Claim.—First, the method of communicating the motions of the tracer-point a and cu-

riage E to the cylinder C, substantially as described.

Second, supporting the bars T on fixed inclined ways S, substantially as and for the prepose set forth.

Third, a compensating connexion between the weighted arm g2 and graver arm d2, substantially as described.

Fourth, pivoting the weighted arm g2 at a different point from that at which the grave

arm c2 is pivoted, that they may be moved separately, substantially as described.

Fifth, the inclined groove 8 for guiding the graver carriage, substantially as described. Sixth, inclining the bar F, for the purpose specified. Seventh, changing the relative speed of the carriages E and G by connecting them with pulleys of a different size, substantially in the manner and for the purpose set forth.

Eighth, the automatic feed connected with the pulley E2 for regulating the spaces between the grounding lines, substantially as described.

Ninth, the employment of screw-scored pulleys, such as W E2 C2, on a pantographic

engraving machine, for the purpose specified.

Tenth, the employment of templets cut out to the form of any figure which is to be repeated, in combination with a supplementary tracing-point a3, to be used substantially as set forth.

Eleventh, reversing the motions of the graver-carriage by clamping the wire z to the carriage G, either at al or a2.

No. 37,178.—WILLIAM PIERPONT, of Salem, N. J.—Improvement in Horse-Powers.— Patent dated December 16, 1862.—The rear ends of the draught-levers are fitted in secker cast upon the upper surface of the main wheel. The levers are connected together by means of braces fastened at their front ends by loose bolts, and at their rear ends by hinges or pivots, so that as the machine is in operation, the levers can rise and fall independently of each other and the main wheel.

Claim.—First, the combination of the socket-pieces a and lever supporting-piece b, with

the main wheel A, substantially as and for the purpose set forth.

Second, the combination of the draught-levers B with the braces C and main wheel A, substantially as set forth.

No. 37,179.—Charles F. Pollard, of Lynn, Mass.—Improvement in Head-Blocks for Lasts.—Patent dated December 16, 1862.—Upon an upright standard is a circular plate B having an elongated semicircular flange C with a notched edge crossing it through its centre, at right angles with its upper surface. Through the standard is passed a wedge D, upon the front end of which is a spiral spring which serves to bring the wedge into the notches of the flange, and retain it in position. Fitted upon the plate B and revolving upon the same is a plate E, in the centre of which is fitted a washer F having a bevelled edge. In a groove formed by bars on the top of the plate E is fitted to slide a movable inclined plane, in which also slides the toe-rest K provided with a gain through its lower end to allow it to pass over a notched bar and receive a catch which is hung by a pin r and drops into the rotabed her, thus holding the tearnings in the required resition.

pass over a noticed bar and receive a catch which is fund by a pin r and drops into the notched bar, thus holding the toe-piece in the required position.

Claim.—First, the plates B E F, notched flange C, with the wedge D, spiral spring d and pin b, when combined and arranged to operate in the manner and for the purpose specified.

Second, the sliding toe-rest K, pivoted catch p, in combination with the inclined plane I, notched bar or rack m, curved spring n, and pivot lever H. when arranged to operate in the manner and for the purpose specified.

No. 37,180.—WILLIAM SELLERS, of Philadelphia, Pa.—Improvement in Belt-Shifting Device.—Patent dated December 16, 1862.—This invention consists in arranging the segments of an internal and external wheel so as to work about a common centre, and to have one tooth on each gear into a corresponding space on each belt-shifter, in such a manner that a full movement of the segments in either direction will operate the belt-shifters, but not at the same time, one being arranged to complete its movement before the other commences, and upon reversing the motion of the segments the movement of the shifters will take place as before, but in the reverse order.

Claim.—The use of an internal and external segment-wheel arranged substantially as and

for the purpose specified.

No. 37,181.—THOMAS SMITH, Jr., of Boston, Mass.—Improvement in the Manufacture of Elastic Cups, Dippers, &c.—Patent dated December 16, 1862.—This invention consists in providing on the surface of the vessel a groove or channel formed by two raised parallel flanges between which, owing to the flexibility or elasticity of the vessel, the supporting band is slipped and inserted, where it will be firmly held.

Claim.—The improvement in the manufacture of elastic or semi-elastic vessels, which

consists in so forming them as to cause them to engage and be firmly held in a band or bands

of metal or other rigid material, substantially as described.

No. 37,182.—ISAAC SOLOMON, of Baltimore, Md.—Improvement in Apparatus for Steaming Oysters in the Shell.—Patent dated December 16, 1862.—This apparatus consists of a large steam-tight receiver made of boiler-iron and provided with steam-tight doors; near the bottom of the receiver are placed valves operated by projecting handles. A steam-pipe conducts the steam from the boiler of the receiver, and the latter is also provided with shelves formed of iron bars and of perforated iron tubing connected with steam-pipes.

Claim.—First, the combination and arrangement in an apparatus for steaming oysters of the receiver a' a' a' a', constructed substantially as described, with the steam supply-pipes, valve, and perforated shelf-tubes constructed and arranged for conjoint operation in the man-

ner set forth.

Second, in an oyster-steaming apparatus, the combination of the steam-tight doors A, constructed and operating substantially as set forth, with the air-valves F, and steam-escape valve, arranged and operating as and for the purpose described.

Third, the employment in an oyster-steaming apparatus of a receiver at the bottom, for the reception and preservation of the liquor from the oysters to be drawn off for use as described.

No. 37,183.—WILLIAM S. THOMPSON, of Rochester, N. Y.—Improvement in Spring Fastening for Lamp Chimneys.—Patent dated December 16, 1862.—This invention is ex-

plained by the claim and engraving.

Clairs.—Securing the chimney by means of the flexible, elastic wires D D on the opposite sides, suitably connected together, and having the portions c c resting respectively in the slots a a of the flange of the lamp top, in such a manner as to furnish an extended, continuous bearing on the base of the chimney to hold it centrally in place and allow it to expand freely and to adapt it to different sized chimneys, the whole arranged, combined and operating substantially as herein set forth. Digitized by GOOGIC

No. 37,184.—Morris Todd, of Quasqueton, Iowa.—Improvement in Seeding Machine.—Patent dated December 16, 1832.—This invention consists in the arrangement of a vertice. adjustable hopper box suspended by means of straps or pendants from the axle of the init wheels of an ordinary wagon, and provided with a hinged adjustable bottom in combins: with a gauge screw, in such a manner that the said hopper can be readily adjusted to said wagons of different heights, and the bottom can be set to sow different kinds of seeds, at different quantities to the acre.

Claim.—The arrangement of the vertically adjustable hopper-box A suspended by means of straps or pendants B from the hind axle E of an ordinary wagon in combination with a gauging screen c and hinged bottom G, all constructed and operating in the manner and kn

the purpose shown and described.

No. 37,185.—Thomas Varney, of San Francisco, Cal.—Improvement in Analgements for Gold and Silver.—Patent dated December 16, 1862.—This invention consists in the carployment of a rotary and stationary muller placed within a suitable pan or tub pwiled with a cover, and so arranged that when in operation the ore will pass in a current orward from the centre and between the mullers to the circumference of the same, and thence in and over the upper and rotating muller to the centre of the same, and down through said muler between it and the lower stationary one to be again thrown to the periphery of the mulen, thus causing all the particles to be brought in contact with the quicksilver in the pan or win the amalgamated plates attached to the muller or mullers.

Within the pan are placed curved or spiral scrapers arranged relatively with the upper surface of the rotating muller so as to insure the passage of all heavy substances in the

pulp, thereby preventing the same from lodging on the rotary muller.

Claim.—First, the employment or use of a rotating muller F provided with central openings g and arranged within a pan or tub A, with a stationary muller G, or an equivalent bed plate, substantially as shown, to insure a current or circulation of the pulp within the put or tub and between the mullers, as and for the purpose set forth.

Second, a covered or close pan or tub A, composed of two parts a b, connected together,

when said pan or tub is used for an ore amalgamating device as specified.

Third, the curved plates or scrapers I arranged to operate in connexion with the rotary muller F, for the purpose herein set forth.

No. 37,186 .- HENRY WALTERS, of Tamaqua, Pa .- Improvement in Steam-Engines .-Patent dated December 16, 1862.—This invention will be understood by reference to the

claim and engraving.

Claim.—In cylinders of steam-engines of otherwise ordinary or suitable construction valves at either end of said cylinder and balanced by a working beam so as to automatically open and close the water passages by the alternate action of steam on the piston as described when the fulcrum of said beam is adjustable, whereby the lift of the valves may be regulated at pleasure, substantially as herein shown and set forth.

No. 37,187.—DAVID WARREN, of Gettysburg, Pa.—Improvement in Harvesters.—Pater: dated December 16, 1862.—This invention consists in interposing two strong steel springs between the dead points of the crank, the said springs extending over to the knife-bar, and acting upon a bolt which passes through the knife-bar near its end, so that when the knifebar is in motion, the bolt plays between the springs, striking each alternately before in pitman reaches the dead points of the crank, and thus enabling the wrist of the pitman w pass these points without a jar.

Claim.—The springs A1 and A2, the bolt c, and the guide B, the whole arranged in the

manner and for the purpose herein specified.

No. 37,188.—Thomas J. Wells, of New York, N. Y.—Improved Self-feeding Samu: Machine.—Patent dated December 16, 1862.—In this machine the circular saw is arranged. such a relation to the table or platform on which the material is sawed as to enable to tooth to perform the double function of feeding and gauging the material to the action of the next tooth in succession by the act of the tooth cutting through said material at such at angle as will draw it forward the required distance for the back cut of each successive to the for the purpose of avoiding the necessity of forcing the material forward by hand or other means.

Claim.—The combination of the saw A with the table E and guide F, when arranged in relation to each other, and operating in the manner and for the purpose described.

No. 37,189.—JAMES V. WESTLAKE, of St. Louis.—Improved Mode of Punching Countersunk Holes.—Patent dated December 16, 1862.—This invention consists in extending the diameter of the hole in the die, so that the countersunk holes required for the taper heads of bolts, and like fastenings, can be made by a punching instead of a boring operation.

Claim.—The punching of countersunk holes in metal so that the same shall be applicable to the practical use of receiving the taper or inverted cone-shaped heads of bolts and other like fastenings, substantially as described.

No. 37, 190.—JOSEPH WHARTON, of Philadelphia, Pa.—Improvement in Furnaces for the Manufacture of Oxide of Zinc.—Patent dated December 16, 1832.—Extending the whole length of the furnace is a division wall, thus forming two distinct portions or furnaces. division wall is surmounted by a trough of cast-iron sunk into its top and kept full of water by a flow from an upright trunk E at one end. The water is caused to fall in a shower in the upright trunk through which the vapors and zinc oxide pass, which serves to remove any remaining impurities in the said vapors, &c.

Claim.-First, the trough T and trunk E for introducing water into the furnace for the purpose of cleaning the zinc oxide while in the furnace and at the instant of its production.

substantially as above described.

Second, the arrangement of the furnace A and B, the division wall c, and the reverberatory arch or cover, substantially as shown.

No. 37,191.—John Wiarda, of Hoboken, N. J.—Improvement in Rocking Sled Propeller.—Patent dated December 16, 1862.—This invention consists in the arrangement of one or more pointed feet hinged to the under surface of the rocking seat of a sled, suspended from a pivot or pivots in such a manuer that by imparting to said seat an oscillating or rocking motion, the feet are alternately depressed on the ground in an inclined direction in such a manner as to propel the sled. In combination with the hinged pointed feet and rocking seat are two working beams arranged in connexion with a foot-board, so that a person operating the seat can exert a direct power in propelling the sled by pressing his feet on the foot-board and his back against the back of the seat, in passing over rough or uneven surfaces.

Claim.—First, the arrangement of one or more pointed feet dd, in combination with the

rocking seat A of a sled, constructed and operating as and for the purpose shown and

described.

Second, the arrangement of working beams F, in combination with the hinged pointed feet e e, and with the rocking seat A, and foot-board b, of a sled constructed and operating substantially as and for the purpose specified.

No. 37, 192.—HENRY A. ALDEN, of Fishkill, N. Y., assignor to the New York Rubber COMPANY.—Improvement in the Manufacture of Hose and Flexible Tubes.—Patent dated December 16, 1862.—This invention is mainly described by the claim. The cylindrical form of the hose is preserved by means of the pressure to which the liquid in the tub is exposed, when the tube is suspended, the interstices in the fabric being filled or packed with the com-

Claim.—The herein-described process or method of water-proofing hose by internal application under pressure of such liquid or semi-liquid India-rubber, gutta-percha, or other comenting substance or compound, as that, by subsequent exposure to air or heat, or by being otherwise treated, shall form a dry flexible coating impervious to water, and when so waterproofed, the mode described of preserving the cylindrical form for the hose.

No. 37,193.—Charles R. Alsop, of Middletown, Conn., assignor to Joseph W. Alsop, of New York, N. Y.—Improvement in Rifled Muzzle for Smooth-bored Guns.—Patent dated December 16, 1862.—This invention consists in applying to the muzzle of an ordinary smooth-bore gun a rifled muzzle, or an additional length or section of barrel, grooved or rifled in the usual manner for the purpose of imparting rotary motion to the ball or projectile as it leaves the gun.

Claim.—A rifled muzzle in combination with a smooth-bore gun barrel, substantially in

the manner and for the purpose set forth.

No. 37,194.—James Emerson, of Manchester, N. H., assignor to William P. Hunt, of Dorchester, Mass.-Improved Ship's Windlass.-Patent dated December 16, 1862.-In this apparatus the two grabs are placed upon one vertical shaft, the lower grab being larger than the upper one and provided with an internal gear, the two being caused to revolve in reverse directions by means of a system of gears and a clutch, and so arranged as to effect the he aving in of two chains of a ship at the same time. The shaft Q is made in two parts, the typer part serving for the capstan spindle, and the lower end passes into a clutch, which is raised and lowered by a cam, so that the lower part may be made to move at double the , peed of the upper part, for light work, when necessary.

Claim .- First, placing the two grabs E E on one vertical shaft, and causing them to revolve in reverse directions for the purpose of heaving in the two chains of a ship at the same time,

substantially as described.

Second, the arrangement of the small gears I J K L, and the clutch N, in connexion with the two chain grabs on the vertical shaft P, for the purpose described, when arranged sub-

stantially as described.

Third, the separation of the shaft Q, thus making it in two pieces in order to allow nearly all of the working parts to be secured to the lower piece, for the purpose named and substantially as described.



No. 37, 195.—Daniel Fitzgerald, of New York, N. Y., assignor to Himself and Challes B. TATHAM, of Brooklyn, N. Y.—Improvement in Hydraulic Cylinders.—Patent & Decomber 16, 1862.—This invention consists in the employment of a series of cylin. fitted and shrunk one over the other, and with hoops similarly fitted and shrunk, and i....? the interstices between the cylinders with water secured by a proper safety valve.

Claim.—Consolidating and combining the strength of concentric cylinders by mean of water or other liquid, hot or cold, filling the interstices in the manner substantially as above

described.

No. 37,196.—Daniel Kelly, of Grand Rapids, Mich., assignor to Himself and Jacob A. Smith, of the same place.—Improved Method of Securing Bits in Stocks.—Patent dark December 16, 1862.—This device is composed of a square stock having a small recess formed in one corner of its upper end, in which recess is pivoted a wedge, key or notched button, which secures the bit in the stock. One of the edges of the notch is bevelled so as to form a key, for the purpose of drawing the bit-head tightly into the socket.

Claim.—The arrangement of the notched wedge-faced pivoted button a, with the tool sock

A and tool B, in the manner and for the purpose herein shown and described.

No. 37, 197.—DAVID E. HALL, of Brooklyn, N. Y., assignor to Himself, VASCONCILLA HOUGHTON, WILLIAM A. NICHOLS and THEO. C. SEARS.—Improvement in Coal Oil Large.—Patent dated December 16, 1862.—This invention consists in the employment of a pagest mineral wick tip combined with a stationary wick of fibrous material. The wick takes guided by and fitted to slide vertically in the shell of the burner, and is raised or lowered !! a ratchet wheel so that its upper end is slightly below a short deflecting tube, which law causes the air to pass through openings in the sides and from the interior of the shell to the base of the flame.

Claim.—The fibrous mineral tip i, prepared substantially as specified in combination with

the wick f, of fibrous material, as set forth.

Also, the adjustable wick tube d, in combination with the deflecting tube g, for the p. poses and as specified.

No. 37,198.—WILLIAM QUANN, of Philadelphia, Pa., assignor to Himself, WILLIAM N. TAYLOR, A. R. WETMORE and CHARLES C. LATHROP, of the same place.—Improvement is Smelting Ores of Gold, Silver, Copper, &c.—Patent dated December 16, 1862.—The nature and object of this invention are explained by the claim.

Claim.—In the process of smelting gold, silver, copper, nickel, and all other ores except iron, and for purifying the metal obtained therefrom, the use of wood ashes, chemical charges coal, carbonate of ammonia, oil or other resinous matter, salt, bone dust, sulphur and such

substantially as described.

No. 37,199.—George H. Reay, of Hudson, N. J., assignor through mesne assignment to JOHN Q. PREBLE, of New York, N. Y.—Counting Attachment for Envelope Machina-Patent dated December 16, 1862.—The object of this invention is to place the envelope a they are discharged from the machine in such order that they can readily, and without we of time, be made up in packs, each containing twenty-five or other desired number.

Claim.—So disposing the envelopes as the same are discharged from an envelope matter that one or more envelopes are pushed out beyond the edge of the regular pile at interval. twenty-four, or any other desired number of envelopes, substantially as and for the purpo-

herein shown and described.

No. 37,200.—Samuel R. Russell, of Middletown, Ohio, assignor to Himself and Besti. MIN F. TEFFT, of Bangor, Maine.—Improvement in Concussion Fuze for Shells.—Patent December 16, 1862.—This invention consists in the employment of a perforated tin tube. taining a plunger and fuze, fitted in the base of a projectile, and so arranged that the tite shall be lighted by and at the moment of the discharge of the gun, and carried forward and at the instant of the impact with the shell with a resisting object, so as to brain

ignited fuze in contact with the powder within the shell at the moment of the said in a Claim.—The combination with a projectile of the perforated tube B, the plunger D. H, and fuze C, arranged and operated in the manner and for the purposes substanting in

herein described.

No. 37,201.—EUGENE LEMERCIER, of Paris, France, administrator of the estate of Louis Jules Sellier, assignor to Amasa B. Howe, of New York, N. Y.—Improved Machine! Sewing on the Soles and Heels of Boots and Shoes.—Patent dated December 16, 1822—15. invention relates to machines employed for uniting together different layers of material which the soles and heels of shoes and boots are composed, and also the ends and seathern straps or belts, hose-pipe and similiar articles, by means of a screw which is cut in a con ? nous manner by the said machine and immediately, whilst being cut, is screwed or entered the material to be united and riveted thereon, thus firmly uniting the different layers of zi

Claim .- First, constructing and mounting the machine in such a manner that any required pressure may be produced on the shoe at the will of the operator while the screw is entering the sole, and instantly stopped after the point of the screw touches the iron last, substantially

as and for the purpose described.

Second, in combination with a machine for cutting and inserting screws in boots and shoes, an elevating and depressing apparatus, as shown at F G H, Fig. 1, by means of which the machine can be elevated or depressed as required, as in passing from the heel to the shank of the shoe, which apparatus also admits of placing the machine in such a position that the screw

may enter the sole at any required longitudinal angle, substantially as desribed.

Third, connecting the machine to the depressing lever D, as shown at I" I" I", for the purpose of inclining the machine to the right or left, so that the screw may be entered at

any required lateral inclination.

Fourth, in combination, the clevating and depressing apparatus F G H, with the connecting joint I" I" I I', for the purposes set forth in the specification.

Fifth, in combination with the screw R and spring V, the movable step or bisected nut v', for feeding in a fresh supply of wire and acting in the manner described and for the purposes set forth.

Sixth, the nose with recesses h h', Fig. 3, acting as a gauge for insuring a uniform distance

between the screws.

Seventh, in combination with a machine that makes and supplies screws from a continuous wire, the cutter d actuated by a lever N, rack e, pinion O, and a spring f, said cutter severing the screw near the sole as soon as screwed home.

Eighth, the triangular section of the cutter d, shown at Fig. 2 2a and 3, leaving the lower ends of the screw in the shape of an inverted V, for the purpose of spreading and riveting on

the last.

No. 37,202.—A. B. Shaw, of Worcester, Mass., assignor to himself and N. H. Shaw, of same place.—Improvement in Sewing Machines.—Patent dated December 16, 1862.—The feed lever, carrying the jointed feeding and pressing foot, is fitted into a vertical slot in the stand, and is made with a yoke for the reception of a cam. The downward pressure upon the said lever is produced by a spring u v, made in two leaves, of which the upper is secured to the top of the stand, and the lever is attached to the upper one by a rivet, so as to permit an independent upward and downward movement. Between the spring and cam d is arranged a pin x, which is fitted to slide vertically in a guide in the standard, and a hole is provided in the lower leaf of the spring for the said pin to pass freely through.

Claim.—The combination of the lifting cam and pin z with the lever H and springs u v, in the manner and for the pupose shown and described.

No. 37,203.—JOSEPH SHORT, of Boston, Mass, assignor to ALBIE H. SHORT, of Salem, Mass.—Improvement in Knapsacks.—Patent dated December 16, 1862.—This invention is designed as an improvement upon the knapsack for which a patent was granted to the said Short, January 28, 1862, and it consists in an arrangement of straps in connexion with the neck band or yoke and steady pins at the bottom of the knapsack to prevent it from swaying sidewise in quick movements of the soldier.

 $Cla\ m$.—First, the suspension strap or straps c', in combination with the connecting strap or straps i, and yoke or neck-strap B, in the manner and for the purpose substantially as set

Second, the steady pins e e, in combination with the knapsack A, substantially in the manner and for the purpose set forth.

No. 37,204.—ISAAC SMITH, of Albany, N. Y., assignor to S. H. RANSOM & Co., of same place.—Improvement in Grates for Stores.—Patent dated December 16, 1862.—This invention is designed as an improvement upon a grate for which a patent was granted to the said Smith on November 27, 1860, and it consists in combining with such grate a device by which the function of dumping the ashes can be performed in addition to the sifting operation.

Claim .- Combining with the grate suspended by hinges, as herein refered to, the dumping

arrangement, substantially as described.

No.-37,205.—E. VALENTINE and M. T. RIDOUT, of Milwaukie, Wis., assignors to Themselves and WILLIAM BECK, of the same place. - Improvement in Bending Metallic Spouts. l'atent dated December 16, 1852.—This invention consists in the use of an elastic laminated core or mandrel in connexion with a swaging apparatus, the said mandrel being composed of a series of thin elastic metallic plates placed on either side of a core of India-rubber or other elastic yielding material. The mandrel is joined to a horizontal lever and rests upon the upper surface of a forming and shaping block G, the further end of which is curved in the form to be imparted to the metallic spont. Directly over the shaping-block is placed a grooved swaging-wheel T, in the rear of which is a retaining hook secured to an elastic band p, which latter is carried forward over and under the swaging-wheel and fastened in the rear of the actuating lever. The upper surface of the shaping-block is covered with a layer of India-rubber forming an elastic cushion r. Digitized by Google Claim.—First, the use of an elastic core or mandrel in the manufacture of curved mail: pipes or spouts, substantially in the manner hereinbefore set forth.

Second, the use of a series of thin elastic metallic plates in the construction of a error mandrel for the inflection of metallic spouts, substantially in the manner herein set forth.

Third, when an elastic core or mandrel is used in the manufacture of curved metallic spectrum use of a shaping-block G, a retaining hook S, and a lever-actuated swaging when it or their equivalents, when combined and arranged substantially in the manner and for the purpose herein set forth.

Fourth, when a lever-actuated swaging-wheel T and shaping-block G are used in the flection of metallic spouts, the use of an elastic projecting band p and elastic cushion r, or equivalents, when combined and arranged substantially in the manner and for the page.

herein set forth.

No. 37,206.—SHERMAN JAQUA, of Paterson, N. J.—Improvement in Machines for Related Tires for Locomotive Wheels.—Patent dated December 16, 1862.—The nature and Expert of this invention are explained by the claim.

Claim.—First, the arrangement, as described, of the top and bottom rollers in an adjustic frame, which is so constructed and attached to the bed as to allow the axis of the said to be brought into a radial line with tires of various sizes, while, at the same time, they are made capable of inward and outward radial adjustment, substantially as set forth.

Second, the arrangement of two bottom rollers, as herein described, in relation to the verteller, by which the tire is prevented from sagging away from the top roller, and a failing flange roller allowed to be placed immediately under the top roller, as herein set forth.

Third, the arrangement of the bottom rollers for finishing the lower edge of the time is different radial plane from that which is occupied by the driving rollers, by which they are prevented from interfering with the said driving rollers, and a more efficient and satisfactory arrangement of parts is made admissible.

No. 37,207.—THOMAS WELHAM, of Nemeha county, Nebraska.—Improvement in Military Observatory.—Patent dated December 16, 1862.—This invention consists of a movable of tower mounted on wheels, and composed of a platform in which a sectional shaft is attacked to be raised and lowered, the said shaft being surmounted by a cylindrical look-out.

Claim.—The combination of an observatory, look-out or signal station, in such a manufithat it can be elevated, when desired, to any required and practicable height by the abilities successive lengths or sections to the lower end of its supporting shaft, substantially in the manner described.

No. 37,208.—Samuel Strong, of Washington, D. C.—Improvement in Breech-loading Fire-arm.—Patent dated December 16, 1862.—This invention is explained by the claim.—Claim.—First, mounting the hammer upon and securing it to the hinged gate, and no ing the face of the hammer at such a point relative to the trigger that in the act of cloud the gate to its seat in the breech, the trigger will enter the notch and raise the face of the lammer off the cartridge, as described.

Second, in dividing the handle of the gate by which it is operated, or securing to its are surface a spring catch w, which takes into a notch formed in the breech, in the manner of

forth.

Third, the combination and arrangement of the gate, hammer, trigger, and mainty independent and so constructed that unless the gate is fully closed the hammer cannot raised to full cock nor the piece discharged in any other position.

No. 37,209.—John Adt, of Waterbury, Conn.—Improvement in Locks.—Patent in December 23, 1-62.—In this lock the bolt is constructed with a groove or recess to the bit of the key and serves as a "gating" for the bit to act upon, so as to shove the bit of mand into the lock case, thereby avoiding all lock appendages, such as "gatings. For jections, levers, &c., commonly used for the bit of the key to act against.

Claim.—The catch C, when used in combination with the bolt B, and the double-pro-

bit q, all arranged as herein set forth.

No. 37,210.—HIRAM BARBER, of Juneau, Wis.—Improved Bed Bottom.—Patent Composition of the bed-bottom is formed of longitudinal slats resting upon a spring at each end, which springs are suspended to a cross-bar fastened to the head and the slats passing under the cross-bar and resting on the spring. To the bed-bottom is attached an arrangement for raising and lowering the head of the bed, consisting of a bottom of slats fastened to a cross-slat upon the cross-bar to which the main bottom is pended, the lower ends of the said slats being secured in place by a metallic sheath faster.

Claim.—The combination and arrangement of the springs A, cross-bars O, slats G and I, and sheath E, with or without the devices for raising and lowering the slats F, substantially

as and for the purpose specified.

No. 37.211.—ELIAS U. BENEDICT, of Chicago, Ill.—Improvement in Metallic and Wooden Roofs.—Patent dated December 23, 1832.—This invention consists in a method of adapting metallic leak gutters and single tiers of boards together so as to cause the joints of the roof to be closed water-tight and allow the water to be conducted to the caves of the roof. The metablic gueters and rooting-boards are tongued and grooved together so as to allow the boards to shrink or swell without disturbing the gutters, and the gutters may be withdrawn and replaced without the necessity of taking off the boards.

Ciaim .- The combination of gutters made of metal, and substantially as described, with the joints and enlarged grooves of the board roof, the gutters being capable of being withdrawn, and the boards capable of shrinking or swelling independent of the gutters, all sub-

stantially as and for the purposes set forth.

No. 37,212.—ALFRED BLISS, of New Rochelle, N. Y .— Improvement in Lamp Insulators.— Parent dated December 23, 1832.—This invention consists in partially or wholly lining the interior of the socket, which is fastened to the upper part of the lamp globe and into which the burner is screwed, with a ring or collar of guita-percha or India-rubber so arranged as to interpose a non-conducting substance all around the open part of the reservoir, and between it and the heat generated from the flame.

Claim—An insulating collar of gutta-percha or India-rubber, constructed with an internal thread b to receive the burner A, and an external thread a' to screw into the socket B, substantially as herein shown and described, and adapted to entirely prevent contact between

the metallic surfaces of the lamp-top and socket, as explained.

No. 37,213.—JAMES E. BOYLE, of Brooklyn, N. Y., assignor to George Stevenson, of New York, N. Y .- Improvement in Values for Water Closets .- Patent dated December 23, 1862.—This invention relates to an improvement in cocks and valves for supplying water to water-closet and other pans for which a patent was granted to the said Boyle January 3, 1860, and it consists in the employment of a hollow valve stem with its lateral induction and eduction water-ways in combination with an induction valve, sliding piston and cylinder, provided with a small aperture or leak to control the closing of the valve, and the diaphragm for closing the valve by the pressure of the water above.

Claim.—The hollow valve stem with its lateral induction and eduction water-ways, substantially as described, in combination with the induction valve, sliding piston and cylinder, provided with a small aperture or leak to control the closing of the valve, and the diaphragm, or the equivalent thereof, for closing the valve by the pressure of the water alone, substan-

tially as and for the purpose specified.

No. 37,214.—JACOB BRINKERHOFF, of Auburn, N. Y.—Improvement in Churns.—Patent dated December 23, 1862.—The main shaft is provided with a series of blades grooved longitudinally on one side, and arranged in spiral lines upon the same. The said shaft is supported at its ends on the inner ends of short metal shafts, which are squared to fit sockets in the main shaft. Fitting over the end of one of the short shafts is a balance wheel, having a square hole passing through it with a cylindrical countersink, the former to fit over the outer square end of the short shaft, and the latter to fit over the outer end of a box or hollow stud shaft c', upon which it revolves.

Claim.—First, the hollow stud shaft c', short metal shaft b', key d', and fly or balance wheel D, when combined and arranged to operate in the manner and for the purpose specified. Second, the series of longitudinally-grooved blades H, in combination with the horizontal shaft C, on which they are arranged in spiral lines to operate in the manner and for the pur

pose set forth.

No. 37,215 .- John S. Brooks, of Rochester, N. Y .- Improved Elevator Bucket .- Patent dated December 23, 1862.—This invention consists in attaching to the front part of an elevator bucket of any of the ordinary forms, a plate of steel fitted to the part most exposed to wear by the friction of the grain. The back and ends of the bucket are formed of one piece of metal turned over at its upper part so as to enclose an iron band, which is riveted at its ends to the steel plate facing.

Claim.—The employment of a shield or facing of steel, or its equivalent in any hardened

metal, to elevate buckets, as and for the purposes described.

Also, in combination with the above, the mode of putting the iron band around the back and ends while they are flat, and fastening it to the steel facing, as and for the purposes shown and described.

No. 37,216.—FRANCIS BUSH, of Boston, Mass.—Improvement in Cartridge Boxes.—Patent dated December 23, 1862.—This invention relates to the construction of the metallic box which contains the cartridges, and which is placed within the leathern box or case, and it consists in making the said box open at the top only, and providing it with one or more sliding boxes, which rest on the bottom of and within the main box when the same is filled, and which, when the cartridges have been used therefrom so as to render them difficult to be reached, may be raised and held at a convenient height for the removal of the remainder.

Claim.—First, the adjustable inner box or boxes B, in combination with the box or can be in the manner and for the purpose specified.

Second, in combination with the boxes A and B, the employment of a stop, substantially a

and for the purpose described.

No. 37,217.—RILEY W. CARPENTER, of Brooklyn. N. Y.—Combination of Reed Instruments with the Piano-forte.—Patent dated December 23, 1862.—This invention consists in the average of the constant of the constan rangement of the reed-board within one end of the case in an upright position, and the arrangement of ment of the key-board to swing back into the case with the keys nearly close to the recu-back when it is not desired to play upon the reeds, so that each can be played upon separate to the one as an accompaniment to the other by a different player.

Claim.—First, the arrangement of the reed-board C and the key-board D, in combinate with each other and with the extended portion B of the case A B, substantially as and to: u.e

purposes herein described.

Second, in combination with such arrangement of the reed-board and key-board within the case, the combination of the reeds and keys by means of jacks G G, applied substantiany so herein specified, to permit the closing up of the key-board.

No. 37,218.—JOHN D. CLARK, of Leicester, Mass.—Improvement in Buckets for Ciass Pumps.—Patent dated December 23, 1862.—This invention consists in forming the past and a chain pump with a groove in its periphery in which is fitted an elastic ring of a size to the internal diameter of the tube.

Claim.—A grooved bucket in combination with an elastic packing ring, as herein described

and for the purpose set forth.

No. 37,219.—Josephus Danner, of Milton, Ill.—Improvement in Cultivators.—Partidated December 23, 1862.—This invention consists of an arrangement of adjustable bands in connexion with the draught pole and supports for the rear end of the same, and a stage by which the machine can be adapted to cultivate rows of corn at different distances april and also to adapt it to rows of different height.

Claim.—The combination and arrangement of the draught pole A, the adjustable bears B, the standards C, and shares c, the supports D, and the bar E, and the strap F. or the equivalent, all arranged and constructed substantially as and for the purposes delineated عندا

set forth.

No 37,220.—Joseph Dodin, of Brooklyn, N. Y.—Improvement in Coil Oil Burners for Lamps.—Patent dated December 23, 1862.—The object of this invention is to enable be ordinary coal oil chimney burners to be used without a chimney. The cone is made of the metal, in two parts, of the form shown in the engraving, and provided with slots, and what the same is fitted a circular plate having in it an oblong slot that fits over the wick tube.

Claim.—First, the particular shape of the plate Fig. 4, with its slots a a, substantially a

Second, the circular plate Fig. 5, with its slot M, in combination with the movable Fig. :.

No. 37,221.—JACOB DUNTON, of Philadelphia, Pa.—Improved Can or Bottle Stopper. Patent dated December 23, 1862.—This device is designed more especially for na contraction. bottles and jars, and it consists of a plain cylindrical piece of cork fitting within a massocket, which is formed with a milled head and an external thread to adapt it to be screne. into a metal neck, which latter is formed with an interior flange so as to afford an extensi bearing for the cork.

Claim.—A bottle or can stopper consisting of the socket A, formed with a milled han R external screw thread a, and internal shoulder a', the neck D, formed with an external in 0 internal screw thread d, and annular flange E, and the imperforate cylindrical cock of the C, all constructed, combined and arranged in the manner and for the purposes show --

described.

No. 37,222.-John G. Ernst, of York, Pa.-Improvement in Bayonet Scabbers 14 Guard.—Patent dated December 23, 1862.—Fitting closely around the neck of the inch. and against the shoulder of the blade is an elongated link or ring of the form shows it engraving, one end of which is attached to a spring secured within the scabbard. T is lower end of the scabbard is secured, by a socket, a ball of India rubber or other class. terial, which constitutes a guard for the point of the bayonet.

Claim.—First, the ring D, adapted and employed to operate in combination with the similar to the combination with the combination with the similar to the combination with the

C and guard or scabbard A, in the manner and for the purposes specified.

Second, the combination of the guard ball E, with scabbard A, to constitute a comscabbard and guard, as explained.

No. 37,223. - John F. Fosdick, of Lowell, Mass. - Improvement in Looms. - Page 13. dated December 23, 1862.—This invention relates to the method of winding the cheb et a

roller or bearer in proportion as the weaving of such cloth may progress, and instead of the ordinary cloth beam, as usually arranged underneath the breast beam, a rod or guide a is arranged horizontally in front of the lay and across the loom frame; below this rod and near to the floor is a long roller b, on which rests another roller c, each of which fits in grooves formed in two inclined posts, so that as the roll of cloth increases in size on the roller c, the latter will rise upward and the roll continue so to increase as long as the journals of the roller may be within their guide grooves.

Claim.—My improved application and arrangement, as described, of the guide a, the take-up roller b, the beam or roller c, and its guides d d, with respect to the lay and the breast

beam of the loom.

No. 37, 224.—HEMAN GARDINER, of New York, N. Y.—Improvement in Churns.—Patent dated December 23, 1862.—Upon the lower part of the dasher are the blades or arms, around which, at the bottom of the churn, is placed a cylindrical chamber perforated at its sides. Around the shaft is placed a tube D, open at top and bottom and communicating with the interior of the chamber. Concentric with the tube D are strainers E, composed of alternate strips of gauze and sheet metal, and of sufficient diameter to allow space for the milk to circulate freely. Inside the cylinders E is arranged a sliding cylinder having open and closed spaces alternately to correspond with the wire gauze or netting, so that by turning the same the flow of milk may be unobstructed or entirely closed or graduated at pleasure.

Claim.—First, the secondary chamber C, at the bottom of the churn, closed as described, having the apertures for the ingress and egress of the milk, in which chamber the agitating

and permeating process is produced, separate from the milk in the body of the churn.

Second, the combination and arrangement of the chamber C, the cylinders or tubes D E E', around the dasher, operating so as to maintain, when the dasher is in motion, a circulation and agitation of the milk and air as described.

Third, the use and application of the combined gauze cylinder E and sliding cylinder E',

for regulating the circulation of the milk while the process of churning is going on.

Fourth, the combination and arrangement of the inner tube D and outer tubes E E', so as to form the hollow space or chamber, through which space the milk is drawn downward to the bottom of the churn into the chamber C.

No. 37,225.—J. W. GARDNER, of Shelburne Falls, Mass.—Improvement in Attaching Handles to Cutlery.—Patent dated December 23, 1862.—This invention consists in providing the implements with a flat tang and having the handle formed of two parts, placed one upon each side of the tang, and secured thereto by means of ferrules fitted in recesses in the handles.

Claim.—Forming handles for cutlery and implements pertaining or analogous thereto, by means of the parts C C, secured to a flat tang B, by means of forrules D D, fitted and compressed in recesses a b, made respectively in said parts and the tang, substantially as herein set forth.

No. 37,226.—Morgan L. Grover, of Duplainville, Wis.—Improved Washing Machine.—Patent dated December 23, 1862.—This invention consists of a cylindrical clothes receptacle formed of slats, with spaces between them to admit the suds, the said slats being grooved on their inner surfaces and the clothes receptacle having a rubber suspended within it. This rubber is formed in part of a flat strip of wood provided with journals at each end, the bearings of which are fitted within the journals of the clothes receptacle. To the inner edges of the strip of wood are attached two pieces of webbing, connected at their lower ends to a bar having its two opposite ends fluted.

Claim.—The combination of the clothes receptacle B and rubber E, constructed and arranged as shown, and used in connexion with the suds-box A, for the purpose specified.

No. 37,227.—HENRY A. HARRIS, of Battle Creek, Mich.—Improvement in Hold-backs for Carriages.—Patent dated December 23, 1862.—On the under side of the shaft is fitted a bar provided with a series of notches, into one of which a stirrup, to which the hold-back strap is attached, engages, the stirrup being held in place by means of a spring extending along the under side of the above named bar.

Claim.—The use of a graduated bar, in combination with a movable stirrup or ring and a

spring, for the purpose and substantially as set forth.

No. 37,228.—Joseph C. Henderson, of Albany, N. Y.—Improvement in Heaters.—Patent dated December 23, 1862.—Over the fire-pot and within an enclosing cylinder is arranged a conical chamber, which is designed to contain the gaseous products sufficiently long to insure a perfect combustion before such products pass away from an annular opening at the base of the said cone. Around the base of the cone and within the enclosing chamber is a series of vertical pipes, so arranged that the products of combustion passing away from the base of the conical chamber come directly in contact with the enclosing case. Above the conical chamber is a cylinder, open at the top and provided with air pipes at the bottom, through which air passes and serves to carry off heat from the conical combustion chamber and from its cylinder.

Claim.—First, the range of vertical hot-air pipes h h, within the cylinder d, in com's tion with the cone k, that deflects the products of combustion against the base of said ign and cylinder for the purposes and as specified.

Second, the conical chamber k, in combination with the cylinder i and air-pipes m and

for the purposes specified.

No. 37,229.—Jonas Hinkley, of Norwalk, Ohio.—Improvement in Adjustable Links—Patent dated December 23, 1862.—This device is formed of two links pivoted together. and each provided with an opening in it near the pivot, the openings not being in line with ex-The two parts are allowed to turn freely on their pivots so as to adjust the last two parts of a chain, the device being designed as a temporary fastening for the purpose connecting a broken chain until it can be properly repaired.

Claim.—Having the sides of the two links pivoted together, as shown, with an opening

each link just in front of the pivot, all as herein set forth.

No. 37,280.—JOHN S. HOWELL, of Portmouth, N. H.—Improvement in Governors.—Passet dated December 23, 1862.—This invention consists in the use of a screw and traverage and to work the lever which operates the gate or valve, for the purpose of graduating the same of steam or water to the resistance to be overcome. The traversing nut is provided with friction strap or box, so that when it is stopped at either end of the screw, after it has m : d the valve of gate, the said nut will turn in the friction strup and prevent any of the part from being broken or deranged.

Claim.—The friction strap or box j, on the nut f, in combination with the stop k h on the

screw, substantially as described, for the purposes set forth.

No. 37,231.—Liverus Hull, of Charlestown, Mass.—Improvement in Treating Conc.—Patent dated December 23, 1862.—This invention consists in the employment in connexion with chloride of sulphur, of the light fluid termed in commerce "carbon spirits" which is made from rock oil, in the treatment of ground caoutchouc, for the purpose of rendering the same elastic.

Claim.—The application of carbon spirits, as described, and chloride of sulphur, to ground

caoutchouc, substantially as and for the improvement of it, as specified.

No. 37,232.—JAMES HYDE, of New York, N. Y., assignor to THOMAS KEECH, of Same place.—Improved Floating Batteries for Ships and other Navigable Vessels.—Patent due December 23, 1862.—This invention consists in the employment of a floating ture. arranged as to float in water contained within the ship's hull, or in a compartment formed therein, and be readily rotated by machinery in the turret. A communication is formed between the inside of the ship and the inside of the turret by a suitable passage-way through hollow frames which sustain the central shaft and through the said shaft.

Claim.—First, the employment of a floating turret in combination with a floating and or ship's hull, substantially in the manner and for the purposes hereinbefore described.

Second, forming a communication between the interior of the ship A, and inside of the floating turret D, through the frame B, and hollow shaft F, substantially as and for the purpose set forth.

No. 37,233.—OLIVER LAFRENIERE, of New York, N. Y.—Improvement in Boots and Shoes.—Patent dated December 23, 1862.—This invention consists of a metallic sole frame A, provided with holes to receive rivets or screws by which it is secured to the inner one Extending from the frame A to the heel is a curved place D, its rear end forming a done tailed socket to receive the heel frame E, which latter is also formed of metal and secure, the inner sole by means of scrows. The heel and sole frame are to be filled with words other suitable material.

Claim.—The boot or shoe provided with a dovetailed plate D, grooved heel frame E. == sole frame A, all made and united in the manner herein shown and described.

No. 37,234.—JOHN KELSEY, of Yardleyville, Penn.—Improvement in Harrows.—Programmes. dated December 23, 1862.—In the construction of this harrow one of the sides is extended forward beyond the other so as to have the front tooth at a point out of the centre of the har To the rear of the harrow is attached a scraper by means of hooks or otherwise.

Claim.—The construction of the oblique extended point B, with its front tooth C. and scraper M, when arranged and combined with the harrow, as herein described and to

purposes herein set forth.

No. 37,235.—Joseph S. Ives, of Morrissania, N. Y.—Engraving Machine.—Paddidded December 23, 1862.—This invention consists of a machine in which a graver of the control of graving tool is made to engrave from a pattern, and so constructed and arranged this by various adjustment of the parts the design to be cut can be varied in scale and properties from the pattern or former

Claim. The employment of a shaft or rod K, hung by a universal joint in an adjustable

stand F, in combination with a table D, or its equivalent, connected by a universal joint to one end of rod K and a tracer or engraving tool e, the whole operating substantially as set forth, to produce on a surface placed on table D various designs from patterns which guide the lower end of rod K, in the manner hereinbefore described.

Also, making the pivots, or their equivalents, of the universal joint in stand F adjustable or variable, substantially as described, for the purpose of changing the proportions of the

designs cut from the same pattern.

Also, the construction of the machine substantially as described, so as to admit of changing the angles of the axes of the universal joint, as set forth, for the purpose of inclining the design in either direction to its base, while the pattern has no inclination, as hereinbefore de-

Also, the sliding rod k, in combination with the rod K and a suitable handle i, substantially as and for the purposes described.

No. 37,236.—BERNARD J. LA MOTHE, of New York, N. Y.—Improved Metallic Framing for Ships and other Navigable Vessels.—Patent dated December 23, 1862.—This invention consists in making the ribs and frames for ships and other vessels of metallic tubes or pipes crossing each other, and clamped together at the points of intersection.

Claim.—A series of metal tubes forming the ribs of ships and other vessels, passing be-

tween the longitudinal tubes forming the keel and keelson, substantially as specified.

Also, forming the knees uniting the decks to the sides of the vessel by bending the tubes

forming or extending from the deck or rib tubes, as set forth.

Also, the combination of ribs formed of pipes, with longitudinal pipes passing between each other and clamped together, substantially as set forth.

No. 37,237.—FREDERICK MCKEE, of Pittsburg, Pa.—Improvement in Lamp Wicks.— Patent dated December 23, 1862.—The nature of this invention is explained by the claim. Claim .- As a new article of manufacture, a lamp wick made out of pulp, and felted or hardened together, instead of being woven, plaited, or twisted, as herein set forth, and this whether the pulp be encased in an outer protection or not, as described.

No. 37,238.-D. Myers, of South Bend, Ind.-Improvement in Railroad Car Brakes.-Patent dated December 23, 1862.—The object of this invention is to enable all the brakes of a train of railroad cars to be operated simultaneously from the tender or from the first car of the train, which is effected by means of levers and chains connected with and operated by a sleeve surrounding one of the axles of the said tender or car.

Claim—First, applying the rubbers to the wheels of a train of cars by means of suitable rods or chains and levers, and a sleeve surrounding one of the axles of the tender or one of the axles of the first car of the train, when a pulley K with bevelled edges, each edge having a spiral groove, is formed on the said sleeve, as set forth, for the purpose specified.

Second, the levers R and R', their pulleys ss, and chains t and r, the whole being arranged and operating in conjunction with the brake levers I and I', substantially as and

for the purpose herein set forth.

No. 37,239.—THOMAS J. NEWLAND, of Utica, N. Y.—Improvemen. in Railway Lamps.-Patent dated December 23, 1862.—This invention consists in the employment of curved or serpentine tubes extending from near the outer ends of the can to the connecting tube that supplies the oil to the burner, for the pupose of preventing the "swashing about" of the oil in the can caused by the joiting of the locomotive.

Claim.—The tubes B B', or their equivalents, constructed and operating substantially as

described.

No. 37,240.—John M. Perkins, of Cleveland, Ohio.—Improvement in Locks.—Patent dated December 23, 1832.—This invention is designed as an improvement upon a lock for which a patent was granted to the said Perkins, August 5, 1862, and it consists in an arrangement of guard plates and stops by which it is designed to prevent the lock from being picked or opened except by the use of the proper key, and also to prevent impressions from being taken of the same.

Claim.—First, the guard plates D D' and stops F I, constructed, arranged, and opera-

ting as and for the purpose described.

Second, the guards K, the stop K", and the wards a, arranged and operated as and for the purpose specified.

No. 37,241.—George M. Phelps, of Williamsburg, N. Y.—Improved Combination Lock.—Patent dated December 23, 1862.—Reference to the specification and drawings will be necessary for a proper understanding of this invention.

Claim.—First, the key spindle B, having both a rotary and a longitudinal movement, and provided with a feather f, in combination with the series of disk tumblers A A' A2 loosely mounted on the said key spindle, and each having an internal slot g and a yielding holder e, substantially as and for the purpose herein described.

Second, in combination with the series of independent disk tumblers A A' A2, each having an internal notch or slot g and a series of notches k around its periphery, with a clicke applied thereto, and all mounted on a sliding and turning spindle B, provided with a feather f, substantially as herein described, the notch or groove f in the said spindle, and pawi or

stop K applied thereto, substantially as and for the purpose herein set forth.

Third, in combination with the bolt C, bolt tumbler D, and series of disk tumblers A A A2, mounted upon and formed so as to be turned and adjusted by the sliding and turning key spindle B, substantially as herein described, the collar L, or its equivalent, wherein the said key spindle, when disengaged from the said disk tumblers, can be engaged with and disengaged from the said bolt tumbler and bolt, substantially as and for the purpose herein set forth.

Fourth, the arrangement of the pawl P, by which the toothed hubs q are secured to the rims r of the disk tumblers, with the perforation Q and slot a in each of the said rims, the hole R in the lock case, and the tongue c of the bolt tumbler, substantially as and for the purpose herein described.

No. 37,242.—CORYDON PRATT, of Pratt's Hollow, N. Y.—Improved Boot-crapte Machine.—Patent dated December 23, 1862.—This invention consists in an arrangement of devices whereby the jaws, after having given the requisite amount of pressure to the leather. by first acting upon the curved portion at the instep with a force greater than at any other point, gradually diminishes the power as it is extended outward, for the purpose of giving a uniform thickness to the leather. During the backward movement of the jaws the presure upon the leather is entirely removed.

Claim.—First, the combination and arrangement of mechanism, substantially as described. whereby the jaws when moved downward, or in the opposite direction from which the leather is forced on to the former, are released from pressure on the leather, substantially as

represented and described.

Second, the U-shaped expander, provided with double inclined planes, and acting upon the springs G G in the manner substantially as set forth.

No. 37,243.—Thomas H. Ray, of North Adams, Mass.—Improvement in Umbrellas.—Patent dated December 23, 1862.—This invention consists in the employment of a rod fitted longitudinally in the staff of an umbrella, and connected with the spring-catch that holds the frame of the umbrella up in such a manner that, by drawing the rod downward with the thumb or finger of the hand that holds the umbrella, the spring-catch will be forced inward so as to allow the umbrella to close.

Claim.—The combination of the closing-rod b with the spring-catch A, when they in constructed, arranged, and fitted to produce the result substantially as herein described.

No. 37,244.—WILLIAM ROBINSON, of Bellefontaine, Ohio.—Improvement in Churm.— Patent dated December 23, 1862.—The body of the churn is mounted upon a spindle that projects upward from a stand, and is fitted in a tight case formed on the bottom of the chura so as to allow the same to be rotated upon the said spindle. Upon the spindle is secured a stationary dasher, provided with curved arms or agitators extending downward, their upper ends being secured to a cap which is made of oval or bevelling form on its upper surface. to allow the cream to fall back into the body of the churn. The cover of the churn is provided with an opening i, over the cap of the dasher.

Claim.—First, suspending the body A of a churn upon a central spindle c', in the manuer

and for the purpose substantially as set forth.

Second, in combination with the cylinder A and spindle c', the stationary dasher E, cor-

structed substantially as and for the purpose set forth.

Third, the cap c, in combination with the spindle c' and opening i, substantially as and for the purpose set forth.

No. 37,245.—JAMES ROSCOE, of Leicester, England.—Improved Lubricator for Sees.

Engines.—Patent duted December 23, 1862.—This device consists of a vessel made of trace or other suitable material, provided with study and nuts for connecting the same to the smoke-box of a locomotive engine. To one end of a screw-plug is secured a metal Fig. 1. in which, when the steam is shut off as the locomotive is on a descending plane, the at it compressed, and thus serves to force out a portion of the tallow through a pipe K into the cylinder of the engine, to lubricate the same.

Claim.—Constructing a lubricator with an air-pipe I, in combination with the other parts

substantially as described and represented.

No. 37,246.—Albert G. Safford, of Boston, Mass.—Improvement in Mode of Operating Brakes for Railroad Cars.—Patent dated December 23, 1862.—This invention consists it the employment of a spring drum and its coupling and winding mechanism, with the pair and chains of the hand windlass and brake levers, so arranged that the brakes may be pair. in operation either by manual power or by the expansive force of the springs placed with the drum.

Claim.—The combination of the "equalizer" P with the pulley N and the chains of the windlasses RR and the system of brake levers.

Also, the arrangement of the spring drum S and its coupling and winding mechanisms (viz., the teeth k and the system of one or more springs kk) with the pulley N, arranged between the two trucks, and so as to operate substantially in manner as specified.

Also, the combination and arrangement of two or more separate springs k k with the

spring drum S and its rotary head or ratchet T.

Also, the arrangement and combination of a relieving mechanism (viz., the windlass o, with its ratchets pq and retaining and impelling pawls r U and connexions lmn) with the rotary spring drum S and the chain pulley N, arranged substantially as herein specified.

Also, the arrangement of the tripping lever V with the car body and the relieving

mechanism, substantially as specified.

Also, the combination and arrangement of the auxiliary brake levers K K with the pulley N and the system of levers and rods connecting the brakes of trucks, as described.

No. 37,247.—ADOLPH S. SARONI, of New York, N. Y.—Improvement in Reversible Neck Scarfs.—Patent dated December 23, 1862.—Attached to the end of a scarf is a triangular piece of pasteboard or card, which is secured to the shirt collar by an elastic loop, so that the scarf may be readily turned to present either side to the front by simply reversing the card.

Claim.—A reversible scarf, provided with a neck-piece made of card board B, or any other suitable material, coated with hatters' sizing, and provided with an elastic loop or loops, so that the scarf A is properly attached to the collar either side out, at the same time presenting the appearance of a carefully-adjusted cravat or neck-tic.

No. 37,243.—Samuel J. Seelly, of Brooklyn, N. Y.—Improvement in Metallic Houses.—Patent dated December 23, 1862.—This invention consists in providing metallic houses with a base or sill, the bottom of which is of proper width to receive and sustain the extreme lower portion of the basement story, such lower portions being enclosed within a gutter formed by the sides and bottom of the metallic sill. The walls are formed of ribbed sheetmetal, the ribs e running longitudinally of the sheet, and rising vertically from the foundation, thus securing plane-faced surfaces e' between the ribs, through which are passed the bolts. In order to properly sustain the walls DD', together with the corresponding wall necessary to complete the lower story, an intermediate connecting sill M is provided, which is formed with a central bearing plate having longitudinal "beaded" projections rising above and projecting below the said plate.

Claim.-First, the foundation sill a a' a2, constructed in the manner and for the purpose

substantially as described.

Second, constructing the sheet-metal walls D D', with ribs ϵ and plane-faced surfaces ϵ' , substantially as and for the purpose set forth.

Third, the connecting sill M, constructed in the manner and for the purpose substantially as described.

Fourth, the girders G, in combination with the walls DD', substantially as described.

No. 37,249.—WILLIAM H. TOWERS, of New York, N. Y.—Improved Cork.—Patent dated December 23, 1862.—Extending through the cork from the top to the bottom are two ends of a wire which are bent at the lower ends so that, by pulling the upper part, the cork may be readily drawn out.

Claim .- The cork with the wire extending through it from top to bottom, the whole constructed and arranged substantially as set forth and for the purpose specified.

No. 37,250.—Otis Tufts, of Boston, Mass.—Improvement in Operating Ordnance.—Patent dated December 23, 1862.—This invention relates to a method of operating heavy ordnance in fortifications or on shipboard. The gun-carriage is mounted upon a turntable which is connected with a sliding or recoil carriage on which the table turns and the gun is run out, trained and withdrawn by steam power, and when withdrawn the muzzle may be turned to a position to allow the piece to be loaded within the fort or vessel.

(laim.—The gun-carriage with its attached turntable, in combination with the sliding or

recoil carriage on which the table turns, and the training carriage or slide that supports them,

substantially as described.

Also, operating a pivot-gun carriage and the gun thereon, substantially in the manner set forth, viz: by locating the shaft through which the power is transmitted, so that it will be concentric with the training pivot or axis.

Also, the training pin or pivot i', when formed to admit the passage of a shaft concentrically through it, and combined with the training carriage of the gun.

Also, so arranging and combining a friction-producing clamp with the slide and ways of a gun carriage that it may be operated at one central point, substantially in the manner described, in the place of two separate clamps, each requiring its own adjustment, as heretofore employed.

Also, so combining the clamp s' and the clamp v that they are operated by one device in

common, substantially in the manner set forth.

No. 37,251.—WILLIAM S. WEIR, Jr., of Monmouth, Ill.—Improvement in Cultivator.—Patent dated December 23, 1862.—The tongue or draught beam of this machine is sented to a frame that rests upon two wheels. The tongue projects in the rear of the frame and a provided with a plough-supporting device. The plough beams are hinged between adjustic pieces, which latter are attached to loop pieces upon the posts of the main frame, by mean of which the depth of the furrow can be regulated.

Claim.—First, the combination and arrangement of the frame B, tongue A, and wheels C

C, substantially as set forth.

Second, the combination with the posts B' B' and plough beams of the loops a and drag :adjusting devices b b, substantially as set forth.

No. 37,252.—ALLEN B. WILSON, of Waterbury, Conn.—Photographic Plate Holin.—Patent dated December 23, 1862.—This invention is designed as an improvement up 12 photographic camera, for which a patent has been previously granted to the said Was 2. and it consists in the use of a double funnel and stem with separate channels, so that each bath can be given through a channel of its own, thus avoiding the necessity of careful cust-

ing when both baths are given and withdrawn through one channel.

The plate holding the negative glass is secured in a fixed position, and the snap spring as previously used is dispensed with, the negative glass being inserted in front instead of the

rear of the plate.

Claim.—First, the double fuunel and stem with separate channels, constructed and open-

ing substantially as and for the purpose described.

Second, securing the negative glass in position in the manner and by the means of a plate holder, constructed and operating substantially as described.

No. 37,253.—ASA L. DARBY, of White Creek, N. Y., assignor to Himself and John H. BALCH, of Cambridge, N. Y .- Improvement in Harvesters .- Patent dated December 21 1862.—This device is designed to be applied more particularly to the machine for which patent was granted to the said Darby, September 16, 1861, and it consists in the emparament of a lever connected at its outer end by a cord or chain to the finger-bar, and two shares coupled by a universal joint and operated by means of bevel wheel gear in combination with a vibrating frame.

The cutter guard or finger is constructed with a cylindrical opening in the rear of the points of the cutters and forward of the cutter-bar, so as to give free passage to any accumulation of grass, stubble, &c. The front part of the guard is provided with cutting edges .

the upper ridge for the purpose of cutting away any wet or tangled grass.

Claim.—First, the apparatus for lifting and turning over the finger-bar, to wit, the level L and chain, with shafts S and G, coupled by a universal joint, and operated by bered wheel gear K and R, with shaft and winch, when used in combination with the vibrating frame B, for the purposes set forth in the within specification.

Second, the construction of the cutter guard or finger as described, with the cylindrical opening back of the points of the cutters and forward of the cutter-bar, and providing the front part of the guard with cutting edges on the upper ridge and flank edges and lower ridge, or on the upper ridge and flank edges alone, for the purpose specified.

No. 37,254.—THOMAS FIRTH, of Camden, N. J., assignor by mesne assignments to Himself and G. W. ADLER.—Improvement in Churns.—Patent dated December 23, 1862-To the spindle of the machine are attached bent arms, on the outer end of each of which is arranged to revolve freely a flutter or propeller wheel. To the inside of the barrel are second four ribs, each rib having two concave recesses so arranged as to allow the wings of the flutter wheels to pass through the spaces formed by the recesses without coming in con's.

Claim.—Any suitable number of flutter wheels E and F, when arranged to revolve in the direction shown, in combination with any convenient number of ribs H, H 1, &c., and their concave recesses, the whole being arranged and operating as and for the purpose set

No. 37,255.—John S. Giles and William Halladay, of New York, N. Y., and John A. Rue, of Brooklyn, N. Y., assignor to John S. Giles and William Halladay, aftersaid.—Improvement in Apparatus for Pressing Hats.—Patent dated December 23, 1702—This invention consists of an expanding heated die adapted to press hats and bloomers with a flaring or bell crown, from one piece or sheet of material, or several pieces sewed t getter. The crown die is composed of hinged side pieces and front and back pieces and a cental plunger or block, which latter is made hollow and receives within it the movable iron by which the crown dies are heated. The crown die is caused to slide up and down, being operated by means of a treadle.

Claim.—The block d fitted to slide vertically in combination with the hinged block " and b b, and forming the crown die for pressing flaring or bell-crowned hats or bloomers.

substantially as specified.



No. 37,256.-John M. Kinney, of Columbus, Ohio, assignor to Himself and Daniel D. WINANT, of Brooklyn, N. Y.—Improvement in Skeleton Skirts.—Patent dated December 23, 1862.—This skirt is formed of a series of springs radiating from a waist-band, and confined to each other by means of tapes or cords, so that each of the springs can be depressed at one side without the other side being correspondingly pressed out.

Claim.—A skeleton skirt formed of springs radiating from a suitable waist-belt and con-

nected to each other to retain them in a skirt form by clastic or non-elastic cords, tapes, or

their equivalents, substantially as specified.

No. 37,257.—Benjamin Green Martin, of New York, N. Y., assigor to Jerome Buck, of same place.—Improvement in Divided Vent-bushing for Ordnauce to Facilitate Unspik-ing.—Patent dated December 23, 1862.—This invention consists in providing any fire-arm, especially cannon, with a bisected bushing or cylinder and vent-field, both detachable from the fire-arm or cannon and from each other. The cylindrical tube is divided into two equal parts which are doweled and fitted together. The vent-field is made detachable to enable the wrench or lever to operate in drawing out the bisected cylinder.

Claim -The divided and doweled cylinder, the combination of the said bisected and perforated cylinder and vent-field, detachable from the cannon or other fire-arm and from each other, for the purpose of bushing any vent-hole whenever needed, and the combination of the bisected and perforated cylinder and wrench, detachable from each other as well as from the vent-hole, for the purpose of unspiking cannon or other fire-arm and showing the vent-hole,

all operating as above described.

No. 37,258.—John Jacob Miller, of Chicago, Ill., assignor to Himself and Ernst Prussing, of same place.—Improved Apparatus for Condensing and Evaporating.—Patent dated December 23, 1862.—This apparatus is composed of a series of dishes or pans placed in alternately reversed positions and secured upon a revolving shaft by means of nuts and screws and collars within a close vessel, on the exterior of which may be placed when necessary a jacket or coil for the reception and circulation of a heating or cooling medium.

Claim. -First, the combination of the closed vessel A and alternately concave and convex rotating pans D and E, with suitable induction and eduction ports, the whole being

arranged to operate substantially as and for the purposes set forth.

Second, the combination of the surrounding jacket or coil J, with the said closed vessel

and pans, substantially as and for the objects specified.

Third, securing the pans D and E upon the shalts B by means of the collar M, tubes d, and clamping nut N, substantially as and for the purposes described.

No. 37,259.—ELNATHAN SAMPSON, of Waterford Junction, N. Y., assignor to SAMPSON and TABBIT'S SCALE COMPANY, of Green Island, N. Y .- Improvement in Platform Scales .-Patent dated December 23, 1852.—This invention is designed as an improvement upon a scale for which a patent was granted to the said Sampson, May 24, 1859, and it consists in the employment of bell crank levers, connected to each other and to double knife-edged, vertical or pendant levers and to a graduated scale-beam in such a manner that by the action or the said bell-crank levers the oscillating motion of the vertical or pendant levers is correctly transmitted to the scale-beam.

Claim.—The employment or use of bell-crank levers k l k1 l1 p q, connected by rods, or their equivalents, in combination with the oscillating vertical or pendant levers C C1, from which the platform A is suspended, all constructed, arranged, and operating substantially in

the manner and for the purpose herein shown and described.

No. 37,260.—WILLIAM H. SMITH, of Birmingham, Conn., assignor to Himself and R. M. BASSETT, of same place.—Improvement in Projectile for Rifled Ordnance.—Patent dated December 23, 1862.—This invention consists in the employment of a jacket or case applied to a projectile having a smaller diameter than that of the bore of the arm in which it is used, in such a manner as to retain the projectile centrally within the gun, to leave the gun with it and to remain attached to it during its flight, and only to be detached upon the projectile striking an object.

Claim .- The jacket or case B, constructed and combined with the body A or projectile proper by means of rosin or other suitable cement in its annular cavity d, substantially as

and for the purpose herein specified.

No. 37,261.—DAVID VOGL, of London, Great Britain, assignor to SIMON GIUTERMAN, of New York, N. Y .- Improvement in Vests. - Patent dated December 23, 1862 - Patented in England December 10, 1861.—This invention consists in making the vest open behind instead of before, and fastening it by means of straps or bands, the front of the vest being furnished with buttons or stude and imitation button holes.

Claim.—The construction of vests closed in front without arm-holes and held in position

around the person by adjustable bands, substantially as described.

No. 37,262.—WINDSOR B. WAIT, of Greenwood, Mass., assignor to Himself and Joszu A. FAIRBANKS, of Melrose, Mass.—Improved Feed Bag for Horses and other Animals.—Patent dated December 23, 1862.—This invention consists in providing a nose-bag with a elastic mouth or head cap so that it will fit closely upon the head of the animal. The head up is provided with a series of openings for the admission of fresh air. The head strap or hanger is also made of some elastic material to cause the bag to be drawn up as the food within the same diminishes while the animal is feeding.

Claim.—The nose-bag as made either with the head cap provided with air inlets b b b or

with the same and an elastic mouth, arranged substantially as specified.

Also, the nose-bag as made with an elastic hanger or its equivalent, and in other respects in manner and so as to operate substantially as hereinbefore specified.

No. 37,263.—WILLIAM G. WARDEN and THOMAS K. PETTY, of Pittsburg, Pa.—Improvement in Oil Stills.—Patent dated December 23, 1862.—The object of this invention: prevent the ill effects of the overflowing of the still, by arresting and returning to the still other receptacle all crude and unvaporized oil and other solid or liquid substances which may boil over or be carried with and by the action of the vapor into the pipe leading to a the condensing worm.

Claim.—The use in stills for distilling hydro-carbon oils, of a double trap constructed surstantially as hereinbefore described, so connected with the still z, its worm-pipe or governeck, as not to return to the still the heavier vapors or any condensed products of distillating but so that any unvaporized liquid or solid substance, carried over with the vapor or bolling over from the still through the still-head or goose-neck, shall be arrested before reaching in worm or condenser, and either returned to the still or collected in a separate receptacle.

Also, drawing off the unvaporized matter which is carried over from the still in the process of distillation and thereby preventing it passing into the condenser or receptacle for distilled oil by means of the apparatus, substantially as hereinbefore described.

No. 37,264.—NATHAN D. MORGAN, of Mount Pleasant, N. Y.—Improvement in Passus Tickets.—Patent dated December 23, 1862.—The nature and object of this invention are as-

plained by the claim.

Claim.—The combination of a new and improved form of passenger ticket to be used a railroad cars, steamboats and all other public conveyances for passengers, with a card or so of paper printed or illustrated, or both, so that the former shall enclose the latter as with an envelope or wrapper, with an aperture in the side of the ticket through which the enclose card or slip of paper shall exhibit some conspicuous word or illustration to attract the attertion of the passenger holding the same, and also open at the ends so that the enclosed card or slip of paper may be easily removed therefrom and rotained by the passengers, substantially as hereinbefore set forth.

No. 37,265.—Samuel J. Seely, of Brooklyn, N. Y.—Improvement in Canal Locks.—Patent dated December 23, 1862.—This invention consists in a method of employing method. of corrugated or ribbed configuration in the construction of canal locks and the parts adjacati thereto, for the purpose of saving the labor and expense attending the setting and finishing

of stone masonry in the construction of such locks.

Claim.—First, the method, substantially as herein described, of constructing canal locks. whereby metal instead of masonry is used to give the requisite strength to the whole

Second, sustaining the side walls and bottom or flooring of canal locks by means of corn-

gated metal or its equivalent, substantially as described.

Third, sustaining the walls of the gate channels by means of corrugated metal or its equivalent, substantially as described.

REISSUES.

No. 1,253.—ROBERT H. LONG, of Philadelphia, Pa.—Improvement in the Mode of Prop. ling Railway Cars by Steam.—Patented January 24, 1860; reissued January 15, 1861; again reissued January 7, 1862.

Claim.—The arrangement of the steam engine and boiler relatively to each other, and upon the platform of a railway car, or other carriage, substantially in the manner specified.

No. 1,254.—Robert H. Long, of Philadelphia, Pa.—Improvement in the Mode of Propolling Railway Cars by Steam.—Patented January 24, 1000; reissued January 15, 1801; 32reissued January 7, 1862. Digitized by GOOGLE

Claim.—Transmitting the power of the engine to the driving axle by means of a driving pinion F attached to the frame of the engine and arranged relatively to the driving axle to operate substantially as specified.

No. 1,255.—CYRUS H. McCormick, of Chicago, Ill., assignee of Leander J. McCormick, William S. McCormick, and Cyrus H. McCormick.—Improvement in Reaping and Moving Machines.—Patented May 11, 1858; reissued No. 973, June 5, 1860; again reissued January 7, 1862.

Claim.—First, the combination of arms no, or their equivalent, with the frame, pinion wheel and driving wheel of a reaping or mowing machine; so that, at one end, said arms or equivalent shall vibrate or turn on or around the axis of the pinion wheel, which gears into and receives motion from the master cog-wheel, and at the other end be properly connected with the axle or journal of the driving wheel, in such manner that, by shifting adjustable fastenings, the height of the frame and cutting apparatus of the machine, relatively to that of the driving wheel can be varied without affecting the gearing of the machine, substantially as described.

Second, the combination of the arm or plate connexion of the driving wheel with the frame of the machine, substantially as described, or the equivalent thereof, with gearing for changing the velocity and direction of the motion generated by the driving and master wheels, and

communicating the same to the cutter.

Third, the combination of said arm or plate connexion, with an adjustable wheel on the opposite side of the machine, for raising and lowering the cutting apparatus to suit required changes in the height of cutting grain and grass.

No. 1,256.—Cyrus H. McCormick, of Chicago, Ill., assignee of Leander J. McCor-MICK, WILLIAM S. McCormick, and Cyrus H. McCormick.-Improvement in Reaping and Mouring Machines.—Patented May 11, 1858; reissued No. 973, June 5, 1860; again

reissued January 7, 1862.

Claim.—First, the combination of the segmental arms, or their equivalent, having notches or holes for adjustment, with the frame of the machine and adjusting bolt, or its equivalent, so as to raise and lower the frame and cutting apparatus and hold them in any desired position, substantially as set forth.

Second, holding the segmental arms, or their equivalent, to the frame of the machine by means of the hooked head of the bolt or detent in the notches of the sectors, substantially as

shown and described.

No. 1,257.—AMERICAN FLASK AND CAP Co., of Waterbury, Conn., assignees of CHARLES HICKS, of Haverstraw, N. Y.—Improvement in Machine for Varnishing Percussion Caps.—Patented February 17, 1857; reissued January 14, 1862.

Claim.—First, a series of rods b, or their equivalents, connected by any suitable means, and a plate A, perforated at distances to correspond with the rods employed in combination to

apply varnish or other material to a number of caps simultaneously.

Second, the combination of a frame c c' c", carrying a number of wires or rods b b, or their equivalents, to take up the varnish, a trough F, to contain the varnish and suitable guides above the said trough to receive a plate which carries the caps, the whole being constructed and operating together substantially as described.

Third, the plate H, containing holes corresponding in number and arrangement with the . wires or rods b b, or their equivalents, arranged relatively to the trough F, the vertically moving frame c c' c", and the guides G, substantially as described for the purpose set forth.

No. 1,258.-J. H. DENNIS, of Louisville, Ky.-Improved Mode of Collecting Fares on Street Railway Cars.—Putented December 17, 1861; reissued January 14, 1862.

Claim.—As an improvement in street railroad cars, the combination of the platformless rear; either without a door or with one for exit only, with the platform and door in front, whereby all persons entering the car, being compelled to pass the driver, he can, without inconvenience, act as collector or oversee the deposit of their fares.

No. 1,259.—HARRISON KALBACH and MARY ANDREWS, of Bernville, Pa., acting executrix of ABRAHAM ANDREWS, (deceased.)-Improvement in Horizontal Water Wheels.-Patented August 30, 1859; reissued January 14, 1862.

Claim.—First, the curved concave buckets having curved or eccentrically-formed tops and bottoms, as described.

Second, in combination with the buckets curved as described, the spiral water-way or chamber underneath them, arranged within a box A, substantially as shown and described.

No. 1,260.—FREDERICK E. SICKLES, of New York, N. Y .- Improvement in Steam En gines.—Patented September 19, 1845; extended for seven years; reissued February 21, 1860; again reissued January 21, 1862.

Claim.—Imparting a coexisting movement to two reciprocating catch pieces in the opera-

tion of the trip of cut-off valves, substantially as described.



No. 1,261.—St. John O'Donts, of Philadelphia, Pa.—Improvement in Fertilizers.—Puented December 24, 1861; reissued January 24, 1862.

Claim .- The use of coal ashes as a basis for deodorizing, absorbing, and retaining of animal vegetable, and mineral matter, in solution or otherwise, when united in a fertilizing compand. substantially as set forth.

No. 1,262.—DAVID M. OSBORNE, of Auburn, and WILLIAM A. KIRBY, of Buffalo, N.Y., assignces of BYRON DENSMORE, of Sweden, N.Y.—Improvement in Harvesting Machine.—Patented February 10, 1852; reissued January 28, 1862.

Claim.—First, hanging the driving wheel in a supplementary frame, or its equivalent, which is hinged at one end by the main frame, while its opposite end may be adjusted and search at various heights, or be left free as desired, whereby the cutting apparatus may be held at any desired height for reaping, or be left free to accommodate itself to the undulations of the ground, substantially as described.

Second, the employment in a harvesting machine of a wheel, provided with a cran and lever, for the purpose of raising and lowering the outer end of the finger bar, to cut have

low, substantially as described.

No. 1,263.—FREDERICK E. SICKLES, of New York, N. Y.—Improvement in the Motor of Exhaust Valves for Steam Engines.—Patented October 19, 1844; extended for seven years reissued January 1, 1861; again reissued January 28, 1862.

Claim. -Giving to each exhaust valve alternately, while the piston is at or near the cold the cylinder furthest from it, a large amount of motion as compared with the motion of the other exhaust valve at that time, so as to more freely exhaust the cylinder with less exet: and greater case of motion to the valves than has been done heretofore, substantially as described.

Also, imparting these motions to the exhaust valve by means of a rocker interposed between the first motion from the engine and the valves, so that it will increase and diminish its kv.:age relative to each valve, while moving them, and thereby impart my improved motion.

No. 1,264.—WILLIAM W. WADE, of Long Meadow, Mass.—Improvement in Sewing Mechines.—Patented February 1, 1859; reissued January 28, 1861.

Claim.—A driving shaft of a sewing machine, having cranks set at right angles to each other, or so approximating thereto as to overcome or avoid a dead centre in the movement of the shaft, substantially as and for the purposes set forth, in combination with the treadies H

II, the driving pulley N, and a device for preventing a retrograde motion of the shaft. Second, in combination with a dewing machine driving shaft, a ratchet device for prevening a retrograde motion when such device is caused to cease its action upon the shaft by means of friction induced between its parts by the forward revolution of the shaft, and is caused:
come into action when a back thrust comes upon the shaft, constructed substantially as and for the purpose set forth.

No. 1,265.—HENRY MIGEON, of Wolcottville, Conn., assignee of JEAN LOUIS BAUDELM. of Harancourt, France.—Improved Method of Cooling Beer.—Patented November 1, 150:

antedated April 13, 1836; reissued January 28, 1862.

Claim.—The process of cooling beer, by causing it to trickle in a thin film along one with the cooling beer. face of metal, as specified, while such surface is kept cool by the passage in the reversed as tion of water or other cooling liquid, in contact with the other surface thereof, substantials as and for the purposes specified.

No. 1,266.—HENRY MIGEON, of Wolcottville, Conn., assignee of JEAN LOUIS BAUDELOT. of Harancourt, France.—Improved Method of Cooling Beer and other Liquids.—Patented

November 1, 1859; antedated April 13, 1856; reissued January 28, 1862.

Claim.—Directing the trickling liquid to be cooled from the bottom of one pipe to the Lati below it, by means of a downward projection, substantially as described, whereby the best bution of the liquid to be cooled is more uniformly maintained, and the contact thereof will the whole cooling surface secured, as set forth.

Also, a trough with perforations for supplying the liquid to be cooled, when combined with a screw or perforated recoptacle within said trough, for detaining any foreign substance, or for equalizing the distribution in said trough of the liquid to be cooled, as specified.

No. 1,267.—Henry Migeon, of Wolcottville, Conn., assignee of Jean Louis Baideloi, of Harancourt, France.—Improved Method of Cooling Beer and other Liquids.—Patented November 1, 1859; antedated April 13, 1856; reissued January 28, 1862.

Claim.—A cooling apparatus for liquids, composed of a vertical range of pipes, passing ox liquid successively from the lower to the upper pipes in said range, in combination with the perforated trough d, or its equivalent, supplying the other liquid, which trickles over the sur face of said range of pipes, as set forth.

No. 1,263.—ETHAN ALLEN, of Worcester, Mass.—Improvement in Repeating Fire-arms. Patented July 3, 1860; reissued February 4, 1862.

Claim.—The combination of a revolving cylinder, having its chambers extending entirely through the block, with an unbroken recoil shield having a projection on its face, as described and for the purpose set forth.

Also, in the said combination, as described, the making of the said projection on the recoil

plate in the form of an inclined plane, substantially as and for the purpose specified.

No. 1, 269.—Gustavus Finken, of Brooklyn, N. Y .- Improvement in the Manufacture of

Cube Sugar.—Patented August 20, 1861; reissued February 4, 1862.

Claim.—The formation of the cubes from the granular sugar in the manufacture of cube sugar by means of machinery composed of an endless or rotating series of moulds fitted with compressing and discharging pistons, and having applied, in combination with them, a cam or cams, or their equivalent, for operating the pistons, one or more at a time, in regular succession throughout the whole of the series, substantially as specified.

No. 1,270 .- JOHN J. HALEY, of South Dedham, Mass .- Improvement in Rollers for Wringing Machines.—Patented January 14, 1862; reissued February 4, 1862.

Claim.—The connecting or uniting of India-rubber rollers to metallic shafts by the means

and in the manner described.

No. 1,271.—HENRY STEINWAY, Jr., of New York, N. Y. - Improvement in Piano-forte

Actions.—Patented June 15, 1858; reissued February 4, 1862.

Claim.—The repeating lever c attached to the arm j at the back of the jack, and arranged relatively to the hammer and operating under the control of a spring, substantially as described and for the purpose set forth.

Also, the employment, in combination with the so-applied repeating lever, of a screw k ap-

plied to operate substantially as and for the purpose set forth.

No. 1,272.—Daniel Treadwell, of Cambridge, Mass.—Improvement in the Manufacture

of Cannon.—Patented December 11, 1855; reissued February 4, 1862.

Claim.—First, in making a cannon consisting of a body in which the calibre is formed, the walls of which are of one piece surrounded by rings, hoops, or tubes in one or more layers placed upon said body under great strain, by which said body is compressed and the natural equilibrium of the molecules or particles of which it is composed disturbed by their being brought nearer together, and this is accomplished in the manner set forth. viz., by making the hoops smaller than the part which they are to surround and then expanding them by heat, and then suffering them to shrink or contract after having been put in their places.

Second, the method of securing the hoops to the body of the gun and the several layers of hoops to each other by screw threads, when they shrink to their places, as described.

No. 1,273.—Cancelled.

No. 1,274.—DAVID B. RODGERS, of Alleghany, Pa.—Improvement in Cultivator Teeth.—Patented November 1,1845; reissued September 20,1859, and extended; again reissued February 11, 1862.

Claim.—First, making cultivator teeth entire of thin plate steel, the shank or upper part being bent or curved round in front, substantially as described and for the purposes set forth,

irrespective of the mode of attaching the tooth to the beam.

Second, attaching cultivator teeth to the cultivator frame by inserting the upper end of the shank (curved round in front for that purpose) into a suitable hole in the beam, and driving a key or wedge into the cavity of the tooth, thereby pressing the shank against the sides and front of the hole in the beam, and thus securing it in its place.

No. 1,275.—CHARLES T. JAMES, of Providence, R. I.—Improvement in Projectiles.—Patented February 6, 1856; reissued December 11, 1860; again reissued February 11, 1862.

Claim.—Combining with the body of the projectile an expansible packing, substantially as described, and capable of being expanded outwardly against the bore of the cannon and into the grooves thereof, if rifled, by the force of the exploded charge acking inside of such packings, substantially as described.

Also, connecting the expansible packing with the body of the projectile by clips, which will

not prevent the required expansion, and which will insure the rotation of the body of the projectile with such packing as described.

Also, making the outer surface of the packing of projectiles intended to be forced into contact with the bore of the cannon, and into the grooves thereof, of fibrous, textile, or equivalent nonmetallic substance, substantially as described.

No. 1,276.—George Mallory, of Watertown, Conn.—Improvement in Hoop Skirts.—

Patented October 19, 1858; reissued February 18, 1862.

Claim.—Providing for the vertical flexure of one or more of the hoops of a skirt at the sides thereof by means of flexible pieces, or their equivalents operating substantially as and for the purpose specified.

No. 1,277.—HENRY KNIGHT, of Jersey City, N. J.—Improvement in Means for Mensignaturing Hydraulic Cement Pipes.—Patented May 8, 1860; reissued February 25, 1862.

Claim.—First, the use of a vertical stationary central core, or its equivalent, substantial

as and for the purpose set forth.

Second, the combination of the detachable collar G, or its equivalent, and a flask or extension mould $F \cdot d \cdot e$, constructed with two different diameters, and with a shoulder f, or its equivalent, for the purpose set forth.

Third, the use of the shouldered detachable base or bottom E, substantially as and fix the

purposes set forth.

Fourth, the use of a detachable collar or tool G, or its equivalent, for forming a right arriver nearly right angle socket within one end of the cement pipe, substantially as and fortispurposes set forth.

Fifth, the use of an adjustable perforated centring table in combination with a cemen Fig.

machine, substantially as and for the purposes set forth.

Sixth, producing by vertical moulding, with means substantially such as described, settlers of cement pipe with external collars and right angle or nearly right angle sockets, assetted. Seventh, removing the moulded cement pipe from the machine by raising it vertically, substantially as set forth.

No. 1,278.—John G. Perry, of South Kingston, R. I.—Improvement in Machines for Mincing Meats.—Patented February 26, 1850; reissued February 25, 1862.

Claim.—First, the use and employment of the studs s s s, Fig. :; with one or both of the discharge elements L L, substantially as described and for the purpose set forth.

Second, combining the knives and space blocks with the case of a meat cutter in the manner substantially as described and for the purposes set forth.

No. 1, 279.—Sanford, Harroun & Co., of Buffalo, N. Y., assignees through mesne as signments of George F. Hebard, George J. Hill, and Simon D. Rockwell, of the same place.—Improvement in Printing Presses.—Patented August 7, 1860; reissued February 25, 1862.

Claim.—First, the combination of the spool or roller C, or the equivalent thereof, which carries a roll of printing paper or thin card board, which may be wound into a roll with reding rollers which have an intermittent feed movement, and the printing and numbering mechanism of a printing and numbering machine, substantially as described, so that the paper or card board may be run off from the roller and fed in by an intermittent movement of the feed rollers, and properly presented for printing and numbering coupon tickets from a continuous sheet of printing paper or card board, substantially as set forth.

Second, the combination and arrangement of the cutting mechanism with a roller, or equivlent, carrying a roll of paper or card board and the printing and numbering mechanism of a printing and numbering machine, so that coupon and other tickets may be printed, numbered and cut simultaneously from such printing paper or card board, substantially as described

Third, in a machine for printing and numbering coupon tickets, in combination with a printing mechanism for printing the tickets, making the numbering wheels adjustable a contally, substantially as described, whereby the machine can be readily adapted to number in the contact of the contact

ing tickets of different widths.

Fourth, in a machine for printing tickets from a roll or continuous sheet of printing part or thin card board, making the feed rollers so as to act upon a portion of the width of the sinstead of the whole width, whereby we are enabled to feed in thin sheets of printing [4] or thin card board in a smooth and even manner.

No. 1,280.—ALEXANDER SWIFT, of Cincinnati, Ohio, assignee through mesne assigned of Issachar Frost and James Monroe, of Albion, Mich.—Improved Mode of September Flour from Bran.—Patented February 27, 1849; reissued March 13, 1855; again research May 11, 1858; and again reissued February 25, 1862.

Claim.—First, the combination of the essential features severally described and several numbered 1, 2, 3, and 4, or their equivalents, substantially as described and for the purpose

specified in the several numbers.

Second, the combination of the essential features severally described and severally necessary bered 1, 2, and 5, or their equivalents, substantially as they are described; the purposed combination being substantially as set forth in number 5.

Third, the combination of the essential features severally described and severally the bered 1, 2, and 6, or their equivalents, substantially as they are described; the purpose the

combination being substantially as set forth in number 6.

Fourth, the combination of the essential features severally described and severally number 1, 2, 6, and 7, or their equivalents, substantially as they are described; the purpose of the exbination being substantially as set forth.

Fifth, the combination of the essential features severally described and severally numbers 1, 2, 4, 5, 6, and 7, or their equivalents, substantially as specified; the purpose of the estimation being substantially as severally set forth.

No. 1,281.—JOHN E. BROWN, of Woonsocket, and STEPHENS. BARTLETT, of Providence, R. I., assignors to John E. Brown, Stephen S. Bartlett, aforesaid, and Thomas H. DODGE, of Washington, D. C .- Improvement in Grain and Grass Harvesters .- Patented

January 2, 1855; reissued January 1, 1861; again reissued February 25, 1862.

Claim.—First, the combination of a hinged or yielding drag bar I, or its equivalent, with the main frame and finger bar or cutter stock of a harvesting machine in such a manner that as the frame is advanced the drag bar, or its equivalent, will be advanced, and that in its turn will draw forward the finger bar which supports the cutting apparatus, which is left free to rise or fall bodily or at the heel end, while the outer end rests on a lower surface without affecting the motions of the main frame.

Second, the use and employment in a harvesting machine of a yielding drag bar, or its equivalent, arranged on the inner side of the machine in combination with hinging the heel of the finger bar to said drag bar, whereby the entire cutting apparatus is left free to rise or fall bodily, or either end thereof, independent of the other and without affecting the motions

of the main frame.

Third, hinging the front elevated end of a drag bar to which the heel of the finger bar is connected in a harvesting machine to the front inner side of the main frame in combination with giving said drag bar a lateral support in rear of the axis of the main wheels, whereby the strain on the frame is divided, while the rear end of the drag bar is retained in proper position, but left free to rise and fall independently of the main frame, for the purpose stated.

Fourth, fastening the heel end of the finger bar which supports the cutting apparatus in a harvesting machine to a heel piece, which in turn is hinged in a recess in the end of a yielding drag bar, whereby the cutting apparatus is properly supported and kept in position at the side of the machine, and yet left free to conform to the inequalities of the ground without affecting the motions of the main frame.

Fifth, the combination of the drag bar I with rock shaft H' and the front of the main frame,

substantially as set forth.

Sixth, the use of a single draw or drag bar attached at its forward and elevated end to the machine by a connexion, so that its rear end can rise and fall, as specified, in combination with a hinged or rigidly connected cutter stock or finger bar, for the purposes specified.

Seventh, hinging the finger bar in a grass harvesting machine to a vibrating diag bar, or equivalent device, when said drag bar or equivalent device is used for the purpose of sustaining and supporting the cutting apparatus to the right of the path of the inner main wheel of the machine, and of allowing it to conform freely to the uneven surface of the ground while the machine is in operation.

No. 1,292.—John E. Brown, of Woodsocket, and Stephen S. Bartlett, of Providence, R. I., assignors to John E. Brown, Stephen S. Bartlett, aforesaid, and Thomas H. DODGE, of Washington, D. C .- Improvement in Grain and Grass Hurvesters .- Patented

January 2, 1855; reissued January 1, 1861; again reissued February 25, 1862.

Claim.—First, the combination of a floating, folding finger bar with the frame of a grass harvesting machine, whereby, when the machine is in operation, the cutting apparatus is left free to conform to the inequalities of the ground without affecting the motion of the main frame, and is also capable of being raised and turned or folded up so as to facilitate the passage of the machine from place to place or over fields of cut grass.

Second, the arrangement of a floating folding finger bar with the frame of a grass harvesting machine in such a manner that the attendant can freely approach said finger bar from the rear and turn up the outer end thereof with facility to pass stumps, stones, or through gates without tipping up or raising the carriage, while the main weight of the finger bar is allowed

to rest on the ground at the side of the machine, for the purposes stated.

Third, the combination of a stop V, or any equivalent device, for the purpose stated, with the heel of a floating, folding finger bar and the frame of a grass harvester.

No. 1,283.—JOHN E. BROWN, of Woonsocket, and STEPHEN S. BARTLETT, of Providence, R. I., assignors to John E. Brown, Stephen S. Bartlett, aforesaid, and Thomas H.

Dodge, of Washington, D. C.—Improvement in Grain and Grass Harvesters.—Patented January 2, 1855; reissued January 1, 1861; again reissued February 25, 1862.

Claim.—First, the combination of the following elements in a grass harvesting machine, viz., a main frame, two supporting wheels to sustain said frame laterally and at the proper height above the ground, a rigid tongue to draw and steady the machine by, and a floating

finger bar, for the purposes stated.

Second, so combining in a grass harvester a floating finger bar, a frame to support the driver, and the tongue or draft beam by which the machine is drawn forward, as that the finger bar which supports the cutting apparatus can rise and fall freely at either or both ends without affecting the motion of said frame or tongue.

Third, the combination and arrangement in a grass harvesting machine of a frame to carry the driver, two wheels to support said frame, one at each side thereof, a tongue to draw the machine by, and a double-jointed finger bar attachment, substantially as and for the purposes stated.

Fourth, combining the floating finger bar with the frame of a grass harvesting machine so that said floating finger bar shall project entirely from the right side of the machine, substantially as and for the purposes stated.

No. 1,284.—New York Wire Railing Company, of New York, N. Y., assignees of T. B. Bleecker, of New York, N. Y.—Improved Mode of Constructing Folding Hinge Bedsted.— Patented April 17, 1847; reissued July 24, 1860, and extended; again reissued March 4.

Claim.—First, the folding frame hinged in the centre and setting within the comer pers. when such frame is connected directly to the posts themselves by journals or bolts, on which the parts turn in folding or unfolding, as set forth.

Second, the hook-shaped ends to the side rails of the frame hinged in the centre-taking bolts or journals attached to the post and forming hinges for the same, or for allowing sail

frame to be disconnected from the posts, as specified. Third, in a bedstead wherein a frame is employed that is hinged to fold as set forth and hinged at its ends directly to the posts, the use of a fastening or brace that retains the kind

frame and posts in their proper relative positions, as set forth. Fourth, in a bedstead where the head and foot guards are constructed substantially a specified, and the bottom is made of a frame hinged to fold in the centre as set forth, locality the journal or bolt b on the post, so that the bedstead, when folded, will stand upright is specified.

No. 1,285.—S. H. MILLER, of Hanoverton, Ohio.—Improvement in Governors for Steam

Engines.—Patented September 11, 1860; reissued March 4, 1862.

Claim.—The employment, in combination with the described system and arrangement of sliding sleeve B, arms E E', balls F F', and links D D' of a spring or springs, applied to operate substantially as and for the purpose specified.

No. 1,286.—CHARLES METTAM, of New York, N. Y., assignee of SAMUEL NOWLAN, of the same place.—Improvement in Galvanic Soles.—Patented June 18, 1861; reissued March 11, 1802.

Claim.—First, the formation of articulated electro-voltaic plate work in sections, as described throughout the whole or major portion of its area so as to give to the same a general pliable. and formed of copper and zinc plates, or their equivalents, essentially as described, and is several sections of negative and positive plates being united in separate relations to their contiguous sections by a flexible insulating strip or strips, substantially as specified.

Second, uniting the several sections of articulated electro-voltaic plate work by means of

eyelets or their equivalents, substantially as set forth.

Third, the employment of a skeleton flexible insulator for uniting the several sections of articulated galvano-electric plate work.

No. 1,287.—JESSE A. CRANDALL, of New York, N. Y.—Improved Rocking Toy.—Patentel

May 17, 1859; reissued March 11, 1862.

Claim.—The combination of the body A, whether made in the form of a hobby horse of of a toy of other description, of the class described, with the base B B, and a spring or spring . C, for producing a rocking movement, as and for the purpose described.

No. 1,288.—Thomas J. Mayall, of Roxbury, Mass., assignor to John H. Cheever. New York, N. Y.—Improved Composition for the Manufacture of Emery Sticks and Whels.—Patented May 17, 1859; reissued March 18, 1862.

Claim.—First, the production of a new compound or composition of matter applicable to the manufacture of sticks, wheels, or other tools for grinding, cutting, or polishing metals, gasses or other hard substances, by combining gutta-percha and sulphur with powdered emery.

Second, the production of a new compound or composition of maîter applicable to the manufacture of sticks, wheels, or other tools for polishing, grinding, or cutting metals, give or other hard substances, by combining gutta-percha and sulphur with powdered emery and olive oil, or its equivalent.

No. 1,289.—THOMAS J. MAYALL, of Roxbury, Mass., assignor to John H. Cheever. New York, N. Y.—Improved Composition for the Manufacture of Emery Sticks and Wheels.— Patented May 17, 1859; reissued March 18, 1862.

Claim.—First, as new articles of manufacture, suitable to grinding and polishing metals. lass. &c., sticks and other tools made of a flexible India-rubber or gutta-percha compound. having emery or other gritty substance incorporated with it.

Second, as a new composition of matter, India-rubber or gutta-percha combined with sulphur and powdered emery in the proportion and manner described, or in such other proportion and manner as will produce a flexible compound by vulcanization.

No. 1,290.—THOMAS SPENCER, of Syracuse, N. Y.—Improvement in the Manufacture of Common Salt.—Patented May 29, 1860; reissued March 18, 1862.

Claim.—Adding to common salt, after it has been drained and in a state of crystallization, the carbonate or bicarbonate of sods so as to unite the same with the impurities, as and for the purposes set forth.

No. 1,201.—THOMAS SPENCER, of Syracuse, N. Y.—Improvement in the Manufacture of

Common Salt.—Patented May 29, 1860; reissued March 18, 1862.

Claim.—The admixture of sulphate of sods, or its equivalent, as set forth, with common salt in a crystallized state after being removed from the impure bath, or "mether liquor," for the purposes specified.

No. 1,292.—Charles T. Eames, of Milford, Mass.—Improvement in Boot-Trees.—

Patented May 27, 1856; reissued March 25, 1862.

Claim.—A boot-tree distended by means of a single cam or wedge attached to a stretching rod D at its lower end and traversing upon an inclined plane located in the back A, at or near its lower end, the same operating substantially in the manner set forth.

No. 1,293 —Augustus P. Griffing, of East Cambridge, Mass.—Improved Inkstand.—

Patented February 4, 1862; reissued March 25, 1862.

Claim.—The inkstand the caps b f of which are made to operate substantially in the manner specified.

No. 1,294.—D. B. NEAL and G. E. HOUSE, of Mount Gilead, Ohio, assigness of D. B. NEAL, H. C. EMERY, and G. E. HOUSE, of the same place.—Improvement in Apparatus for Evaporating Saccharine Juices.—Pattented February 21, 1860; reissued March 25, 1862.

Claim.—First, leading a current of cold air under the bottom of the sugar pan, for the purpose of facilitating the removal of the scum, substantially in the manner described.

Second, cooling that portion of the pan from which the molasses is about to be withdrawn without interrupting the boiling of the crude juice in the other pertions of the pan, substantially in the manner described.

No. 1,295.—C. S. Buchanan, of New York, N. Y., assignee of J. T. Coupler and M. A. C. Mellier, of Paris, France.—Improvement in the Preparation of Paper Stuff.—Patented August 2, 1853; antedated May 7, 1851; reissued March 25, 1862.

Claim.—First, treating straw with pure caustic alkali, (previously freed from lime,) for loosening the color preparatory to the bleaching process, substantially in the manner and for

the purpose set forth.

Second, the circulation of the caustic fluid through the stock so as to avail ourselves of repeated chemical action on the fibrous material, substantially in the manner and for the purpose set forth.

Third, in combination with the alkaline treatment of straw, as described, the use of the

hypochlorites as described and for the purpose set forth.

No. 1,296.—Moses Marshall, of Lowell, Mass., assignor to S. S. Bucklin, of Brookline, Mass.—Improvement in Pegging Machines.—Patented November 5, 1861; reissued March

Claim.—A feeding point so arranged and operated as to enter the hole previously made by the awl, and to move the machine along for the purpose set forth.

No. 1,297.—THE LIQUID QUARTZ COMPANY, of New York, N. Y., assigness of G. E. VAN DERBURGH, of Mamaroneck, N. Y.—Improvement in Preparation of Soluble Silicates.—Pat-

ented May 29, 1860; reissued April 1, 1862.

Claim.—Reducing any silicious and alkaline composition or substance to a liquid state, by bringing it into direct contact with superheated steam, while enclosed within a suitable vecsel, substantially as set forth.

No. 1,298.—A. G. BEVIN, of Chatham, Conn.—Improved Mode of Attaching Sleigh Bells to Straps.—Patented July 22, 1856; reissued April 8, 1862.

Claim.—Securing sleigh bells to straps by means of staples, rivets, bolts, or their equivalent, passing through the straps and belts, substantially as described.

No. 1,299.—J. C. BIRDSELL, of West Henrietta, N. Y.—Improvement in Machinery for Hulling and Threshing Clover.—Patented May 18, 1858; reissued April 8, 1862.

Claim.—The arranging and combining in one machine the cylinder which threshes the balls and seed from the straw or stalks, and the cylinder which hulls the seed, so that the balls and seed threshed may be hulled before it (the seed) passes out of the machine.

And in combination with the threshing and hulling cylinders above claimed, the bolting or screening and conveying apparatus, which separates the balls and seed from the straw or stalks and delivers them to the hulling cylinder.

And in combination with the threshing and hulling cylinders, the screening and fanning apparatus which separates the hulls or balls and cleans the seed after it leaves the hulling. cylinder.

No. 1,300.—HENRY EDDY, of North Bridgewater, Mass.—Improvement in Cribs for Horses. -Patented January 6, 1857; reissued April 8, 1862.

Claim.—First, the application and use of the inclined planes H H, with the vertical opening I between them, in combination with the sides of the crib E F, substantially as specified and for the purposes set forth.

Second, the space $g \ h \ k$, partially enclosed by enclined planes H A, with the opening L substantially as specified.

Third, the ventilator o, in combination with the planes H H, substantially as described. Fourth, the cap K, when applied to the crib D, substantially as described and for the purpose set forth.

No. 1,301.—HENRY L. RANDALL, of Roxbury, Conn., assignor to ISRAEL D. CONDT, of Milburn, N. J.—Improvement in Machines for Felting and Sizing Hat Bodies.—Patented April 21, 1857; reissued April 15, 1862.

Claim.—A concave bed for the roll of hat bodies to rest and turn in without changing place

while being felted, substantially as and for the purpose specified.

Also, in combination with such a concave bed, the mode of operation of the felting instru-

ment, substantially as and for the purpose specified.

Also, in combination with such a concave bed, and with the felting instrument, or the equivalent thereof, the means described, or the equivalent thereof, for partially resisting the rotation of the roll of hat bodies in the said bed, substantially as and for the purpose spec-

Also, in combination with the concave bed and the felter, or their equivalents, the mechanism, or the equivalent thereof, for varying the degree of pressure on the roll, and for free access to the bed for putting in or taking out a roll of hat bodies, as set forth.

No. 1,302.—CLEMENT RUSSELL, of Massillon, Ohio.—Improvement in Double-geared Horn

Powers. —Patented May 1, 1855; reissued April 15, 1862.

Claim.—In connexion with double-geared horse powers, the combined use of a centre pin and moving block for allowing the drive wheel to adjust itself to the pinions with which it works, substantially as described.

No. 1,303.—Dennis G. Littlefield, of Albany, N. Y.—Improvement in Hot-air Furnece. -Patented October 9, 1860, antedated July 3, 1860; reissued April 22, 1862.

Claim.—First, the combination of the cold-air channel H, the perforations S S S S, the

register S', and the damper R, as described.

Second, combining in hot-air furnaces the shell or covering L, the register S', for opening and closing the top of the shell, as set forth, the perforations SSSS, opposite or near the fire pot, and the cold-air channel H, substantially as described.

No. 1,304.—JOHN E. EMERSON, of Trenton, N. J.—Improvement in the Mode of Fastering

Tools to their Handles .- Patented March 29, 1859; reissued April 29, 1862.

Claim.—First, the use of picks, axes, or other analogous tools without eyes therein, when the same are fastened to a handle by means of a stirrup, an iron heading, a gib and key or wedge.

Second, the iron heading of a handle, in combination with the transverse key or wedge.

and the eyeless pick, axe, or other analogous tool.

Third, the key or wedge when the same is used transversely to the tool for attaching picks. axes, or other analogous tools to handles.

No. 1,305.—Samuel S. White, of Philadelphia, Pa.—Improvement in the Manufacture of Artificial Teeth .- Patented January 1, 1862; reissued April 29, 1862.

Claim. - The manufacture of mineral teeth with pins having heads d d at their outer ends. substantially as specified.

No. 1,306.—Gail Borden, jr., of Amenia, N. Y.—Improvement in Concentrating and Preserving Sweet Milk.—Patented August 19, 1856; reissued May 13, 1862.

Claim.—First, concentrating sweet milk by evaporation in vacuo, substantially in the

manner and for the purpose set forth.

Second, in the process of concentrating sweet milk in vacuo, the preparatory scalding of the milk by heating it to a temperature of from 150° to 200° Fah., substantially in the manner and for the purpose described.

No. 1,307.—Daniel Holmes, of Chelsea, Mass., assignee of Joseph Harris, jr., and Daniel Holmes, of Roxbury, Mass.—Improved Carpet-beating Mackine.—Patented Patential ruary 23, 1858; reissued May 13, 1862.

Claim.—First, the use of the revolving endless flexible beaters a a g g, or their equiva-lents, when used and operated substantially as described for the purposes specified.

Second, the combination of a set of vibrating flexible whips, or their equivalents, with a set or sets of revolving endless whips, substantially as described, for the purpose specified.

Third, the use of an elastic cushion L placed in front of the carpet to sustain the shock of the whips, substantially as set forth.

No. 1,308.—Lewis Horning, of Montgomery Co., Pa., assignee of J. Y. Humphrey, of Philadelphia, Pa.—For Mica Chimneys for Lamps.—Patented July 17, 1860; reissued May

Claim.—The construction and use of lamp-chimneys made mainly of mica, when the upper end is contracted and made smaller than the lower or middle portions thereof, substantially in the manner and for the purpose described.

Also, binding the mica chimney of a lamp with rings of metal, substantially in the man-

ner and for the purpose described.

No. 1,309.—H. D. Snow, of Rochester, N. Y.—Improvement in Governor Valves.—Pat

ented October 11, 1859; reissued May 13, 1862.

Claim.—Constructing steam-governors substantially as set forth, so as that the downward movement of the balls when they drop below the point, affording a full opening to the valve, shall tend to close it.

No. 1,310.—R. B. GOODYEAR, of Elkton, Md., formerly of Philadelphia, Pa., assignee of A. BOWIE and CHARLES CARR, assignees of the said R. B. GOODYEAR.—Improvement in Apparatus for Operating Shuttle-Boxes of Looms.—Patented March 13, 1849; antedated September 13, 1848; reissued June 14, 1853; again reissued May 20, 1862.

Claim.—The employment, for the purpose of weaving, of an index-plate having movable and adjustable pins projecting at different distances from the face of said plate, in combina-tion with the shoe H, or its equivalent, for the purpose of raising and falling the shuttleboxes to correspond with the pattern desired to be formed, the whole constructed and arranged in the manner described.

No. 1,311.—JAMES B. FLOYD, of New York, N. Y.—Improvement in Burglar-Proof Safes.—Patented October 16, 1860; reissued May 27, 1862.

Claim.—The use or introduction of the crystallized or cast franklinite, or similarly constituted metal by whatever name known, in the construction of safes, or parts thereof, to render such structures proof against the use of all kinds of known cutting tools.

No. 1,312.—JOHN C. MORRIS, of Cincinnati, Ohio.—Improvement in Wood-bending Ma-

chines.—Patented March 11, 1856; reissued May 27, 1862.

Claim.—First, a wood-bending form, to which timbers are made to conform by bending them from the centre or inner end of the desired curve outward, when used in combination with abutments or clamps to prevent or regulate end expansion, and levers or handles, or their equivalents, to guide the bending, substantially as described.

Second, a stationary or poised wood-bending form, in combination with the cords, levers,

and drum, or their equivalents, and the eccentric clamp, or its equivalent, in the manner and

for the purposes set forth.

Third, in combination with the stationary form, levers, and abutments, the employment of hooks and pins, or their equivalents, that shall embrace the ends of the wood to restrain the wood in shape, and permit the removal of the abutments, after the completion of each operation.

No. 1,313.—JACOB SWARTZ, of Buffalo, N. Y.—Improvement in Harvesters.—Patented

November 14, 1854; reissued June 5, 1860; again reissued June 3, 1862.

Claim.—In combination with the main frame of a harvester, and a short, laterally-projecting finger bar, carrying cutters reciprocating in a straight line, a shoe whose front end is sloped forward and upward above the points of the fingers, substantially as shown, through which said finger bar receives all its connexion with the main frame of the machine, when said shoe is secured to the main frame through the medium of a hinge connexion.

No. 1,314.—JACOB SWARTZ, of Buffalo, N. Y.—Improvement in Harvesters.—Patented November 14, 1854; reissued June 5, 1860; again reissued June 3, 1862.

Claim.—First, in combination with the main frame of a harvester and the finger bar G and shoe F, or their equivalents, the coupling arm E, or an equivalent thereof, which, when drawn forward by said main frame, will draw forward said finger bar and vary the longitudinal distance of its heel from the frame, when raised and lowered in respect thereto, substantially as described.

Second, making that end of the coupling arm E, or its equivalent, which is connected with hangers, C and D, with a front and rear branch, for the purpose specified.

Third, making the vibrating end of the coupling arm E, or its equivalent, with a front and rear branch, for the purposes specified.

Fourth, making the central portion of the coupling arm E, or its equivalent, of less width

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than the front of the front branch to the rear of the rear branch of its inner end where the hinge pins pass through.

Fifth, making the central portion of the coupling arm E, or its equivalent, of less with than from the front of the front branch to the rear of the rear branch of its vibrating etc.

where the hinge pins pass through. Sixth, making the branch b of the coupling arm E, or its equivalent, to extend families

back than its branch d.

Seventh, making the branch c of the coupling arm E, or its equivalent, to extend further forward than branch a.

Eighth, hinging branches a and b of the coupling arm E, or its equivalent, each to a different member of the machine.

Ninth, causing branch c of the coupling arm E, or its equivalent, to occupy one cavity in the shoe F, or its equivalent, and branch d to occupy a different cavity therein.

Tenth, placing the branch d, of the coupling arm E, or its equivalent, over the heel of the finger bar and branch c, in front of and of a corresponding height with branch d.

No. 1,315 .- JACOB SWARTZ, of Buffalo, N. Y .- Improvement in Harvesters .- Patentel November 14, 1854; reissued June 5, 1860; again reissued June 3, 1862.

Claim.—First, the combination with the main frame of a harvester of the coupling arm E.

finger bar G, and cutter bar n, substantially in the manner described.

Second, the combination with the main frame of a harvester of the coupling arm E, fings: bar G, cutter bar n, and pitman p, or their equivalents, substantially in the manner described, whereby the relative positions of the cutters and fingers to each other are not materially varied, when raised or lowered in respect to said main frame.

Third, limiting the distance which the inner end of the above-described cutting apparatus will vibrate from, and toward the main frame to which it is connected by the upright post Q, arm R, hinge pins a' and b', vertical slot c', and set screw d', or their equivalents, substantially as described.

Fourth, so connecting said cutting apparatus to the main frame of the machine by the post Q, arm R, hinge pins a' and b', vertical slot c', and set screws d', or their equivalents, that it can be retained at various heights above the ground, substantially as described.

No. 1,316.—John H. Synder, of Troy, N. Y.—Improvement in Manufacturing Railroed Chairs.—Patented July 13, 1858; reissued June 3, 1862.

Claim.—Making the continuous jaw or lip of railroad chairs by rolling and forming the same by means of suitably shaped rollers, mounted and running in conjunction with each

other, substantially as described and set forth.

Also, the forming of continuous jaws or lips of railroad chairs by rolling into the solid iron of the flange, on the blank bar of which the said lips are composed, and which flange for said jaw or lips is raised upon a blank bar as aforesaid, by means of said rollers, described and set forth, or by means of any rollers substantially the same.

No. 1,317 .- G. G. LOBDELL, of Wilmington, Del. - Improvement in Cast Metal Car Wheels -Patented April 15, 1862; reissued June 17, 1862.

Claim.—First, a hollow cast metal tire or hollow rim B, provided internally with radial braces f, connected at their ends respectively with the inner and outer peripheries of the tire, and

without being in contact with its sides, substantially as and for the purpose set forth. Second, securing the tire or rim B to the rim c of the wheel A, by means of the boits s passing through the rim c, and the inner periphery of the tire or rim B, and having holes j

made in the sides of the tire or rim B to turn the nuts i, as set forth.

Third, counterbalancing the wheel by pouring melted lead or other suitable metal into the chamber e, when said metal counterbalance is used or employed with the braces f, arranged as set forth.

Fourth, the combination of the hollow wheel A and the hollow tire B, when both are comstructed. arranged, and secured together, as and for the purpose set forth.

No. 1,318.—HENRY A. BURR, of New York, N. Y., assignee through meane assignments of H. A. Wells, (deceased.)—Improvement in Manufacturing Hat Bodies.—Patented Art. 25, 1846; reissued October 7,1856; extended and again reissued April 25, 1860; and again reissued June 17, 1862.

Claim.—First, in depositing fur in a conical bat of the described varying thickness. Second, in holding the bat by pressure, so as to preserve the disposition of the fur and

permit the percolation of water; and

Third, in saturating the bat with water while the disposition of the fibres is preserved. These three steps being performed in the order and substantially in the manner specified

No. 1,319.—W. W. Shaw, of Troy, N. Y., assignor through mesne assignments, to L. L. Tower, of Cambridge, Mass .- For Rubber Head for Lead Pencils, &c .- Patented April . 1869; reissued June 24, 1862.

Claim.—The combination of a lead pencil and an elastic rubber ferrule or head, made so

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as to encompass the cylindrical surface of the pencil or a tenon therefrom, substantially in the manner as specified.

Also, as a new manufacture, an elastic grasive pencil head made substantially as described.

No. 1,320.—S. L. AVERY, of Norwich, N. Y.—Improvement in Water Elevators.—Patented

May 8, 1860; reissued July 1, 1862.

Claim.—Coupling a crank to any windlass shaft in such a manner that the said crank can be instantly uncoupled from said shaft, and then be used as a brake lever, for the purpose of checking or controlling the reverse movements of the said windlass shaft, all substantially

Also, arranging a crank with a windlass shaft, a ratchet wheel and pawl, in such a manner that the instant the said crank is uncoupled from the windlass shaft, a further action upon said crank will relieve the ratchet wheel from the action of the pall, and also cause a friction brake to so act upon the windlass shaft as to check or control its reverse movements, all substantially as set forth.

No. 1,321.—J. R. BAYLIS, of Baltimore, Md.—Improved Double Cone Marine Propellers.—

Patented December 10, 1861; reissued July 1, 1862.

Clsim.—The construction of a double or single cone propeller, having its oars or blades constructed, and when arranged relatively to the hub or axis, substantially as and for the purpose described.

No. 1,322.—A. W. GRAY, of Middletown, Vt.—Improvement in Horse Powers.—Patented September 9, 1856; reissued July 1, 1861.

Claim.—Constructing the links which compose the endless chains of corrugated and bent sheet metal, so that the corrugations shall serve both as hinges for connecting the links, and as cogs to gear into the cog wheels of the driving shaft, substantially as specified.

Also, the friction rollers a only partially perforated for the reception of their bearings b b, which have no shoulders, arranged and operating substantially as and for the purpose set

Also, the method of forming the tenons on the ends of the cogs, to enter the mortises of the sheet metal links by means of the simple saw kerfs, substantially as specified.

No. 1,323 .- N. K. WADE and Jos. KAYE, of Pittsburg, Pa .- Improvement in Car Wheels .-

Patented September 4, 1860; reissued July 8, 1862.

Claim.—The use in car wheels having cast-iron rim and hub, of curved or bent spokes or arms of wrought iron, or other flexible material, so arranged and set relatively to the hub and rim as to brace the rim in a plane parallel to its axis, substantially as described.

No. 1,324.—J. J. ECKEL, of New York, N. Y., assignee of A. RANDEL, of the same place.—

Improved Oil Presses.—Patented March 8, 1862; reissued July 22, 1862.

Claim.—The hollow plunger B I, solid curb C, with a perforated cylinder D placed within it, and so arranged as to allow vertical escape passages between them for the exit of the oil or grease, and the perforated central discharge tube E, in combination with the perforated horizontal plates F G and H, arranged as shown, or in any convenient way to admit of lateral escape passages for the oil or grease between the central tube E and the perforated cylinder D, as

Further, the bed A, hollow plunger B I, solid ribbed curb C surrounded by bands C' shrunk upon its periphery, perforated cylinder D, perforated central discharge tube E supporting tube E', perforated plates F, G, and H, and bars ceg, all constructed, combined, and

arranged in the manner and for the purposes hereinbefore explained.

No. 1,325.—RICHARD MONTGOMERY, of New York, N. Y.—Improvement in Iron Cars.—Patented August 7, 1860; reissued July 22, 1862.

Claim.—First, the use of the corrugated iron beams, constructed as described when ap-

plied to railway cars and other vehicles, in the manner and for the purposes set forth.

Second, the combination of the curved top pieces B, with the side or base pieces A, and coupling pieces H and G, arranged and operating substantially as described.

Third, the combination of the cross pieces C, with the arched supports D, substantially

as and for the purposes set forth.

Fourth, the corrugated covering F, arranged as described in combination with the arched top pieces B.

Fifth, the coupling pieces H and G, severally, and their application jointly or severally, in the manner and for the purposes set forth.

No. 1,326 .- N. K. WADE and JOSEPH KAYE, of Pittsburg, Pa. - Improvement in Metallic Wheels for Fly Wheels, &c.—Patented September 4, 1860; reissued July 22, 1862.

Claim. Constructing wheels with rim and hub, or both, of metal cast on curved spokes or arms of wrought iron or other flexible material, substantially as and for the purpose hereinbefore set forth.

No. 1,327.—G. P. Cox, of Malden, Mass., administrator of S. A. Cox, (deceased.) and assignee by mesne assignments of said decedent.—Improvement in Machine for Bending the Lip of Wrought-Iron Railroad Chairs.—Patented August 8, 1849; reissued July 14, 1857; again reissued August 12, 1862.

Claim.—First, a suitable support for a chair blank, in combination with bending levers, or a bending apparatus and a former, or their equivalents, acting in combination, substan-

tially as specified hereinbefore.

Second, a drop hammer, or its equivalent, for the purpose set forth, in combination with the bending levers, a former, and a suitable support for the chair blank, or their equivalents for the purposes set forth, and acting in combination, substantially in the manner hereinbefore set forth.

Third, the use of the discharging lever K, or equivalent therefor, in combination with the

former, for the purpose of forcing said former from the chair.

No. 1,323.—DAVID LANDIS, of Lancaster, Pa.—Improvement in Screens for Flour Bells—Patented October 23, 1860; reissued August 19, 1862.

Claim.—First, the rotating cylinder D and screen E, the latter being placed within the former, and both arranged essentially as shown, to operate as and for the purpose set forth.

Second, the metal lining a^*b^* , within the bolt chest, for the purpose herein specified. Third, the combination of the cylinder D, screen E, and metal bolt chest lining a^*b^* , and for the purpose set forth.

No. 1,329.—Adam Lebkuoner, of Belleville, Ill.—Improvement in Lubricating Compounds.—Patented June 25, 1861; reissued August 19, 1862.

"Claim.—The use for lubricating purposes of rosin oil, muriate or chloride of sinc, lime and water combined together, as above described.

No. 1,330.—G. W. SCOLLAY, of St. Louis, Mo.—Improvement in Burial Cases.—Patented

March 18, 1862; reissued August 19; 1862.

Claim.—First, controlling, disinfecting, and deodorizing the gases as they escape from the coffin, by making a tube or valve therein and combining and confining with or over said hole or valve the disinfecting and deodorizing material in some part of the coffin, which is to be otherwise air-tight.

Second, making a chamber in combination with the coffin, for the purpose of holding the deodorizing and disinfecting material, and causing the gases to pass through said chamber

on their way out of the coffin.

Third, the use of the valve a, in combination with the disinfecting and decoming chambers.

No. 1,331.—CHAUNCEY THOMAS and D. P. NICHOLS, of Roxbury, Mass., assigness of CHAUNCEY THOMAS, aforesaid.—Improvement in Carriage Props.—Patented September 2.

1857; reissued August 26, 1862.

Claim.—The improved carriage prop as constructed with a screw or a loose shoulder on D, combined with a joint bar standard A, and arranged between the leather L and the joint bars G H, all placed on the standard, or the latter passing through them and secured in postion by the nut I, substantially as described.

No. 1,332.—Dennis G. Littlefield, of Albany, N. Y.—Improvement in Store.—Patented January 24, 1854; reissued November 19, 1861; again reissued August 26, 1862.

Claim.—The illuminated exterior wall or cylinder M, with openings f therein glazed with

Claim.—The illuminated exterior wall or cylinder M, with openings f therein glazed with isinglass, or any transparent substance, or any equivalent therefor, in combination with a coal supply chamber and an intermediate chamber G, wherein gas is consumed at or around the fire pot, or any appendage thereof, substantially as and for the purpose herein described and set forth.

No. 1,333.—Dennis G. Littlefield, of Albany, N. Y.—Improvement is Store.—Patented January 24, 1854; reissued November 19, 1-61; again reissued August 26, 1862. Claim.—The employment of a fire pot having a vertical fire grate around the same, forming a downward continuation of a coal supply pot, in combination with a gas-consuming chamber between the outer case and the connected fire and coal supply pot, substantially and for the purposes as herein described and set forth.

No. 1,334.—Dennis G. Littlefield, of Albany, N. Y.—Improvement in Stores.—Patented January 24, 1354; reissued November 19, 1861; again reissued August 26, 1862.

Claim.—An organization which will permit the gases of the supply coal and the gases of the incandescent coal to burn laterally below and outside of the coal-supply chamber, and entirely down to the grate, and thereafter circulate the spent gases, or a portion of them, over the top of the coal-supply chamber, and finally discharge them through a fue leading outside the room in which the stove is situated.

No. 1,335.—Dennis G. Littlefield, of Albany, N. Y.—Improvement in Stoves.—Pat.

ented January 24, 1854; reissued November 19, 1861; again reissued August 26, 1862.

Claim.—The combination of the fire pot E with the coal-supply cylinder F, immersed within the outer cylinder M, which forms the chambers G and G', substantially as and for the purpose herein described.

No. 1,336.—Lewis Moore, of Ypsilanti, Mich., (formerly of Bart, Pa.)—Improvement in Seed Planters.—Patented July 2, 1850; reissued October 12, 1852; again reissued August 26, 1862.

Claim.—First, a seeding slide having apertures with sides oblique to the sides of corresponding apertures in the hopper bottom or plate u, when combined with any suitable device

to impart a reciprocating motion to the said slide, substantially as described.

Second, in combination with a hopper or seed-box having a number of apertures for the discharge of seed, a perforated seeding slide having a reciprocating motion transverse to the motion of the machine, and adjustable in extent, for the purpose of varying the quantity of

Third, the combination of the perforated vibrating lever p and pivoted rod m with a cam f and seeding slide j, to vary the motion of the said slide, substantially as and for the pur-

Fourth, raising or lowering the drill teeth or hoes simultaneously, by means of chains a', or their equivalent, attached to the rear edge of a flat bar or board X, hinged by its front edge to the frame, and provided with a lever y, projecting backward from it, all substantially as herein shown and described.

Fifth, the combination of the hook or catch b', flat bar or board X, and lever y, all con-

structed, arranged, and employed in the manner and for the purposes set forth.

Sixth, supporting the hopper or seed-box upon the frame of the machine by means of brackets b2 b2, straddling the beam a2, so as to secure the hopper in position without fasten-

ings, and permit its ready removal.

Seventh, suspending the seeding slide beneath the hopper by means of loops w, placed beneath the apertures h i in the hopper bottom, substantially as and for the purposes set forth.

No. 1,337.—M. EASTERBROOK, J. M. WOOD, and E. A. BROWNSON, of Geneva, N. Y. assignees of said Easterbrook and Wood.-Improvement in Machines for Peeling Willows.—Patented January 21, 1862; reissued September 2, 1862.

Claim.—First, the employment or use in willow-peeling machines of two presser wheels D and F, constructed and operating substantially as described, so as to produce a direct

central pressure upon three sides of the passing willow.

Second, the projections m, attached to yielding slides i, which are fitted in a plate L, between the bars K, and arranged in relation with the wheels D and F; to operate as and for the purpose specified.

Third, the combination of the presser wheels D and F, yielding scrapers m, revolving brushes M, and the discharging rollers N, arranged as and for the purposes specified.

No. 1,338.—HENRY JENKINS, of Brooklyn, N. Y., (formerly of Pottsville, Pa.)—Improvement in Wire Fences.—Patented February 13, 1849; reissued September 3, 1862.

Claim.—First, an iron fence or other article formed by the combination of woven wires or rods, with grooved bars surrounding the same and receiving the ends of the wires, in the manner specified and for the purposes set forth.

Second, forming the surrounding metallic frame of a woven wrought-iron panel by the employment of two bars attached to each other, and having between them the ends of the

wires or rods forming the wrought-iron work, substantially as specified.

Third, crimping straight wires or rods in opposite directions, at the required distances apart, and weaving said wires or rods together to form meshes as set forth, whereby the general straight form of the wire is maintained, except at the points where the wires cross, as specified.

Fourth, crimping wires or rods at different or irregular distances along their lengths, in order that said wires or rods, when woven together, shall form open iron-work with meshes

of different shapes, substantially as set forth.

Fifth, wires or rods crimped in opposite directions, and formed with bends between the crimps at right angles to them, and woven together as specified, whereby the crimps set into each other at the points of intersection, and the aforesaid bends regulate the shape of the meshes, as set forth.

Sixth, in combination with the iron-work formed by wires or rods crimped and woven together, as set forth, the rods twisted together, as specified.

No. 1,339 .- J. M. Allen, of Fredericktown, Ohio, Asignee of NEWMAN SILVERTHORN, of Prescott, Wis .- Improved Boot and Shoe Tip .- Patented November 29, 1859; reissued September 3, 1862.

Claim.—First, a tip, as an article of manufacture, formed into shape in such a manner as to allow of its being applied and fastened to the toe part of shoes or boots by sewing or

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pegging it between the upper and the sole, substantially as hereinbefore described and in

the purposes set forth.

Second, a shoe or boot tip as an independent device and marketable commodity, formel of a material different from and that will present greater durability and resistance to wear than that of which the shoe or boot to which it is intended to be applied is made, such tip being made of such permanent form as to lap over and under the toe part of the upper, and whereby it may be attached to the boot or shoe by securing it at its base between the sole and upper and without sewing it to the upper, substantially as herein described.

Third, the production, as an article of manufacture, of a shoe or boot tip made of such India-rubber or gutta-percha compound as that, when vulcanized, it shall be of a more or less soft, flexible, and elastic nature, or of any other material that will render it applicable to boots or shoes by sewing it in between the upper and the sole, substantially as berein

set forth.

Fourth, the production, as an article of manufacture, of a shoe or boot tip made of such India-rubber or gutta-percha compound as that, when vulcanized, it shall be of a more or less hard or rigid nature, or of any other material that will render it applicable to boos or shoes by pegging it in between the upper and the sole, substantially as herein set forth.

No. 1,340.—S. R. Andres, of Troy, N. Y.—Improvement in Articles of Food made from

Beans, Peas, &c.-Patented July 23, 1861; reissued September 9, 1862.

Claim.—The manufacture of flour, meal, grits, or grains, from beans, peas, or com, substantially as and for the purposes described.

No. 1,341.-F. F. Fowler, of Crane Township, Ohio.-Improvement in Hay Elevators.-

Patented April 17, 1860; reissued September 19, 1862.

Claim.—First, in the construction of elevators for hay, the combination of the permenent pyramidal supporting frame and the revolving cross-bar and its braces with a central spporting piece, for allowing the cross-bar and its braces to turn upon the supporting frame,

substantially in the manner and for the purpose described.

Second, in the construction of elevators for hay, in combination with the cross-bar, revolving upon an under supporting frame, the so arranging of the sheaves and hoisting tackle as the the weight to be raised shall be upon one end of the cross-bar, whilst the power to raise the weight is applied to the opposite end of the cross-bar, for the purpose of enabling the operator to use a small and compact structure, that may be easily transported or moved, occupying but little space, and sufficiently rigid within itself without the use of additional guys, braces, or other fastenings, as herein described and represented.

Third, in the construction of elevators for hay, two pyramidal frames, one placed upon the other, the under frame being upright and the upper one inverted, and the head-blocks of apices of both so united as that the upper frame may freely turn upon, whilst it is supported by, the lower frame, substantially in the manner described.

No. 1,342.—WM. H. HORSTMANN, of Brooklyn, N. Y.—Improvement in Submarine Cables

for Telegraphs.—Patented September 13, 1859; reissued September 19, 1862.

Claim.—First, the combination of a conductor insulated and then covered with a fibrous coating material to form an elastic bed for the outer wires, substantially as herein described. combined with exterior wire or wires laid parallel with the conductor, as and for the purpose set forth.

Second, the link for splicing the length of the conductor, as above specified.

No. 1,343.—WM. H. HORSTMANN, of Brooklyn, N. Y.—Improvement in Submarine Calls for Telegraphs.—Patented September 13, 1859; reissued September 19, 1862.

Claim.—Forming the cable herein described by the apparatus substantially as herein set forth, consisting of coating reservoirs and wrapping apparatus, &c., or their equivalents.

Also, the final reservoir m, for coating a telegraph cable just before it enters the water or

ground, substantially as and for the purpose described

Also, manufacturing the cable at the time it is laid, when found advantageous so with as above specified.

No. 1,344.—RICHARDSON, BARNUM & Co., of Salisbury, Conn., assigness of HEXE! MOVERS, of the same place.—Improvement in Mode of Heating Moulds.—Patented December 3, 1861; reissued September 16, 1862.

Claim.—A hollow mould or chill when heated by the introduction of steam, het air, bize. or flame, for the purpose of heating the same to the proper temperature, to give a more perfect and uniform chill to the treads of cast-iron wheels, chilled tire, or other iron castings. whose surfaces require to be hardened.

No. 1,345.—CHARLES PERLEY, of New York, N. Y.—Improvement in Compound Captions for Ships.—Patented August 5, 1857; reissued October 7, 1862.

Claim.—First, a removable heaver on a vertical shaft sustained and rotated from below said heaver, in combination with a second shaft and capstan or capstan head, and with gearing between the said shafts, substantially as and for the purpose specified.

Second, a capstan on a vertical shaft that can be connected to or disconnected from the shaft, in combination with a chain wheel or heaver on a separate vertical shaft, the two shafts being connected by gearing, substantially as set forth, whereby the capstan can be used separately from the heaver, or both heaver and capstan can be rotated in either direction, to take in or give out chain cable, as set forth.

Third, the adjustable bearing block o, in combination with the chain heaver m, to relieve the vertical shaft of said heaver from strain and friction that would otherwise result from the weight of the chain, or the strain on the same while the vessel is lying at anchor, as set

forth.

Fourth, the combination of the power capstan n, coupling 9, and heaver m, for the purposes and as specified.

No. 1,346.—E. A. and W. TUTTLE and J. S. BAILEY, of New York, N. Y., assignees of the administrators of C. F. TUTTLE, (decoased.)—Improvement in Hot-Air Registers.—

Patented January 23, 1849; reissued October 14, 1862;

Claim.—The application of the upright or vertical wheel G, or part or segment of a wheel, to the opening and closing of hot-air registers or ventilators; the edge or periphery of which wheel is so placed as to adapt it to be operated on by the foot if desired, substantially as set forth.

No. 1,347.—P. W. GATES, THOMAS CHALMERS, and D. R. FRASER, of Chicago, Ill., assignees through mesne assignments to Wheeler Hedges, of the same place.—Improvement in Evaporating Sugar Juices and Solutions by Means of Steam.—Patented November

29, 1859; reissued October 28, 1862.

Claim.—The cooking or evaporating of sirup and sugar juices by using steam coils in such manner as to produce violent chullition at the point where the steam first expends a portion of its heat upon the coils and sirup, and from such point have the shullition gradually decrease in violence or to subside, so that the scum or feculent matter separated from the juices may be caused to flow toward and equably and completely deposit outside of the side margin or margins of the stream or body of juice in the pan, substantially as set forth.

No. 1,348.—P. W. GATES, THOMAS CHALMERS, and D. R. FRASER, of Chicago, Ill., assignees through mesne assignments to Wheeler Hedges, of the same place.—Improvement in Apparatus for Evaporting Sugar Juices and Solutions.—Patented November 29, 1859; reissued October 28, 1862.

Claim.—First, the combination of the transverse stops F F and the pan C, with inclined sides, the stops having a narrow flow passage equal to the width of the bottom of the pan

beneath them, substantially as and for the purpose set forth.

Second, the combination of the stops F F, the pan C, and defecator C', substantially as

and for the purpose set forth.

Third, the combination of the coils G G', operating as described, or in a manner equivalent thereto, the pan C, and the fire furnace A, substantially as and for the purpose set forth.

Fourth, the combination of the deep preparatory heaters B B', the shallow evaporating pan C D, and steam coils G G', or equivalents thereof, and fire arch A, substantially as and for the purpose described.

Fifth, the combination of the preparatory heaters and cleaners B B' and the defecator C',

substantially as and for the purpose described.

Sixth, the arrangement of the two sets of coils B B, two chambers B' B', and the receiving and exhaust steam pipes g h, and the sirup cocks k k, substantially as and for the purpose

Seventh, the combination of the evaporating pan C, steam coils G G', or their equivalents, inclined side beaches D D, and gutters E E, substantially as and for the purpose described.

Eighth, the combination of the inclined beaches D D, and the gutters E E, substantially as and for the purpose described.

No. 1,349.—P. W. GATES, THOMAS CHALMERS, and D. R. FRASER, of Chicago, Ill., assignees through mesne assignments to WHEELER HEDGES, of the same place.—Improved Apparatus for Defecating and Evaporating Sugar Juices.—Patented November 29, 1859; reissued October 28, 1862.

Claim.—An evaporating pan constructed with a defecating apartment, for the purpose set

No. 1,350.—P. W. GATES, THOMAS CHALMERS, and D. R. FRASER, of Chicago, Ill., assignees through mesne assignments to WHEELER HEDGES, of the same place.—Improved Evaporating Pan for Sugar Juices and Solutions.—Patented November 29, 1859: reissued October 28, 1862.

Claim.—An evaporating pan for sirup and sugar juices, constructed with a shallow depth by having one or both of its sides form a continuation of its bottom by rising on accumed planes, substantially as set forth.

Second, the combination of the pan, constructed as described, and a laterally located defecator, substantially as set forth. Digitized by Google No. 1,351.—H. S. BARTHOLOMEW, of Bristol, Conn.—Improved Ball Brace.—Palend May 21, 1861; reissued November 4, 1862.

Claim.—First, a breast brace A, the main portion of which is made from a rod of mrasubstantially as set forth and for the purpose described.

Second, a breast brace A, the main portion of which is made from a rod of metal, subtratially as described, in combination with a bit holder made separate from the red, and suitably attached to it, substantially as and for the purpose set forth.

Third, a breast brace A, with its ball made in one piece, and secured upon it so as to maintain its proper position and to revolve, substantially as set forth.

No. 1,352.—D. H. DOTTERER, of Chicago, Ill., (formerly of Memphis, Tenn.)—Improvement in Journal Boxes.—Patented May 7, 1861; reissued November 4, 1862.

Claim.—First, providing in journal boxes an endless revolving band or ring M, substatially as and for the purposes described.

Second, the sheave J, and axial pin j, for supporting the upward thrust on the endess revolving band or ring M, within the journal box, substantially as described.

Third, the auxiliary end bearing I, for the axle journal, substantially as described.

No. 1,353.—J. C. LEFFERTS, of New York, N. Y., assignee of J. F. MARTIN and H.C. NICHOLSON, of Mount Washington, Ohio. - Improvement in Preserve Cans. - Patental Feb.

ruary 15, 1859; reissued November 4, 1862.

Claim.—First, a fruit or provision can to be hermetically sealed or tightly closed, on structed of metal, lined on the inside with a vitreous body to resist the action of acids on

tained in the substances to be preserved.

Second, a vitreously enamelled iron provision can or jar, substantially as herein set fact. Third, the combination of a vitreously lined metallic cover with a preserve jar, substantial as set forth.

No. 1,354.—J. L. BOOTH, of Rochester, N. Y.—Improvement in Grain Separators.—Psented April 8, 1851; reissued November 18, 1862.

Claim.—First, the combination of a vertical upward blast with a shaking or chaffing is which receives a portion of the blast, substantially as and for the purposes herein specific Second, the combination of the double bend (or bends) G, in the blast-tube and the open

spout (or spouts) H, for the purpose specified.

Third, a valve J, or its equivalent, in combination with a vertical upward, separation blast and chaffing sieve, which receives a divided portion of the blast for the purpose specia-

No. 1,355.—John Magee, of Chelsea, and W. J. Towne, of Newton, Mass., assigned of said JOHN MAGEE.—Improvement in Ventilating Dampers for Stores.—Patented May :.. 1856; reissued November 18, 1862.

Claim.—The new combination of the damper d, (Figure 3,) smoke-pipe I, and air in the so that the movement of the damper which diminishes the air inlet will increase the opening of the smoke passage, and that which increases the opening for the smoke will diminish in inlet for air, substantially in the manner and for the purposes above specified.

No. 1,356.-John Magee, of Chelsea, and W. J. Towne, of Newton, Mass.-Improve

ment in Stoves.—Patented August 14, 1860; reissued November 18, 1862.

Claim.—The new arrangements of the smoke pipes and air valves, and mouth of the furnit or their equivalents, so that they are brought into proximity on the same side of the furse substantially in the manner and for the purpose hereinbefore described.

No. 1,357.—Benjamin Crawford, of Alleghany, Pa., assignor to English Benner! FRISBEE, and CRAWFORD, of the same place.—Improvement in Steam Boiler Furnice. -Patented January 29, 1850; reissued December 2, 1862.

Claim.—First, the injection of whirling jets of steam among the gases evolved by in

fuel on the grates, for the purpose set forth.

Second, self-whirling adjutages, or their equivalents, on the pipes leading from the or steam blower to proper positions for increasing the draught or promoting combas substantially as set forth.

Third, whirling live steam for the purpose of increasing or maintaining the draught of a

steam boiler furnace, substantially as set forth, or the equivalent thereto.

Fourth, a combined stream of mingled steam and hot air introduced and forced into ash-pit, and up through the fire of a steam boiler furnace by means of the steam boiler and hot air and steam pipes which intersect one another and terminate in a discharging perwithin the ash-pit, substantially as set forth, or the equivalent thereto.

Fifth, live steam blowers arranged in the flues of a steam boiler for the purpose of sizes.

the draught and blowing out the foul matter which accumulates in the flues.

Sixth, the combination of means as set forth, for performing unitedly the several functions specified.

No. 1,358 .- JOSEPH RENARD, of Lyons, France. - Improvement in Treating Aniline to produce a Red Coloring Matter or Dyc.—Patented April 8, 1859; reissued December 9, 1862. Claim .- The treatment of aniline in combination with a metallic salt, or the equivalent thereof, with heat, substantially as described, to produce a red in contradistinction to a purple or bluish coloring matter or dye, as set forth.

No. 1,359.—JOSEPH RENARD, of Lyons, France.—Improved Red Dye from Aniline.—Patented April 8, 1859; reissued December 9, 1862.

Clsim.—The new substance or red dyeing matter produced by subjecting aniline and a metallic salt, or the equivalent thereof, to a high temperature, substantially as described.

No. 1,360 .- N. A. RHOADS, of Waterbury, Vt.-Improved Clothes-Wringer .- Patented

March, 11, 1862; reissued December 9, 1862.

Claim .- In a clothes-wringing machine provided with elastic rollers, the construction of either or both of such rollers, or, in other words, the arrangement of their operating surfaces, so that they may be at a greater distance asunder at their middle than at their ends, the whole being substantially in the manner and for the purpose as herein described.

Also, the arrangement and combination of the connexion and bearing bar G, with the rubber springs g g, the shaft H, and its cams h h, the whole being applied to the frame A, and its rollers D D', substantially as described.

Also, the arrangement of the shaft L, and its arms $l \, l$, with reference to the rollers D D', the frame A, and the two bars J J, or their equivalents, affixed to the said frame.

No. 1,361 .- N. A. RHOADS, of Waterbury, Vt .- Improved Clothes-Wringer .- Patented

March 11, 1862; reissued December 9, 1862.

Claim.—The connexion of each of the bars J J with the frame A A, by means of the adjustable screw M, whereby the distance of the bar'J from the frame A may be increased or diminished as circumstances may require, substantially as herein set forth.

No. 1,362.—C. A. MILLER, of Philadelphia, Pa., assignee of W. S. KIRKHAM, of Branford, Conn.—Improvement in Lock and Latches.—Patented March 15, 1859; reissued December 9, 1862.

Claim.—The keeper D, having two inclined planes in combination with a latch so pivoted to a janus-faced lock, and so arranged in respect to the inclination of the keeper, that whether the latter be applied to a left or right-handed door casing, one or other of the said inclined planes shall, on closing the door, cause the latch to move on its pivot, and direct the outer end into or behind the keeper, as described.

No. 1,363.—HENRY DUNHAM, jr., of Abington, Mass.—Improvement in Machine for Sewing Soles to Boots and Shoes.—Patented September 9, 1862; reissued December 16, 1562.

Claim.-The combination of the curved and hooked needle with the last, constructed with a concave bottom, the whole being substantially as described and represented.

Also, the arrangement of the hook on the flank of the curve of the shank of the needle, as described and with respect to the awl, so as to puncture lengthwise instead of crosswise of its section a hole as made by the awl.

Also, the combination of an awl curved longitudinally with a needle having its. shank

curved longitudinally and provided with a hook near its point.

Also, as an improvement a sewing machine as constructed not only with its needle curved and hooked, but with the same and the rest cast off and needle-closer made to operate in curved paths, having a common cutter or axis, as described.

Also, the combination of the curved and hooked needle with the last, constructed with a concave bottom and with a chamfer, or with their mechanical equivalents, so as to form a

ridge around the said bottom and inside of its outer edge, as specified.

Also, the combination of the last-holder with its carrying plate, in such manner as to enable the former to be inclined with respect to the latter, substantially in manner as set

Also, the above-described arrangement of the feeding mechanism with respect to the last

carrying-plate supporter M, and the sewing mechanism.

Also, a curved awl and a curved hook needle, arranged and combined with a guide-wheel G, and a last having a concave bottom, the whole being in manner substantially as specified.

No. 1,364.—B. J. La Mothe, of New York, N. Y., assignor of La Mothe Life Pre-SERVING IRON CAR COMPANY, of the same place.—Improved Metallic Car for Railroads.-Patented September 24, 1861; reissued December 16, 1862.

Claim.—First, the construction of the frames of railroad cars and other vehicles of tubes

or of tubes and bars combined, substantially in the manner described.

Second, connecting the separate tubes of which the ribs are composed, and strengthening the corners by inserting the tubes within each other or by the insertion of additional tubes or rods, as specified.

Third, clamping the intersections by means of the sleeve sockets i fitting loosely over the bars or tubes midway between the ribs, driving tightly against them.

Fourth, the pair of rivetted or bolted clamps h, Figs. 6 and 7, securing the intersecting

bars or tubes without perforating the latter with holes.

No. 1,365.—S. H. RANSOM & Co., of Albany, N. Y., assignees of ISAAC SMITH of same place.—Improvement in Grate for Stoves.—Patented November 27, 1860; reissued Document 16, 1862.

Claim.—Suspending the grate by cranes or hinges, substantially as set forth.

No. 1,366.—George Westinghouse, of Schenectady, N. Y.—Improvement in Gran and Seed Winnewer.—Patented March 4, 1862; reissued December 16, 1862.

Claim.—The combination of the swinging shoe II, operating as described with the fan C. when the blast of the latter operates upon the former, in the manner and for the purpose specified.

No. 1,367.—Douglas Bly, of Rochester, N. Y.—Improved Artificial Leg.—Patented May 17, 1859; reissued July 3, 1860; again reissued December 23, 1862.

Claim.—First, curving or deflecting the jointed extremities of the base J so as to king their axes of motion back of their line of direction, substantially as and for the purpose set

Second, the cord T and spring X, acting upon the parts D and L, substantially in the

manner and for the purpose herein set forth.

Third, the combination of the India-rubber spring E with a tendon or cord in such a much ner that the required effect is derived from the compression and expansion of the material and not from its elongations and contractions, substantially as set forth.

Fourth, the axial bolts or transverse axes B C, as and for the purpose herein set forth. Fifth, providing the ends of the cords F with the enlargements and with the con't socket fastenings G to receive the same, substantially as described, in order to apply alice-

ing screws for the purposes herein specified.

Sixth, the manner of constructing the bearing portions of the knee-joint consisting of the upper and lower bearing blocks N N, each of which forms a segment of a circle more or kneed to be a circle more or kneed to be a circle more or kneed to be a circle more or kneed to be a circle more or kneed to be a circle more or kneed to be a circle more or kneed to be a circle more or kneed to be a circle more or kneed to be a circle more or kneed to be a circle more or kneed to be a circle more or kneed to be a circle more or kneed to be a circle more or kneed to be a circle more or kneed to be a circle more or kneed to be a circle more or kneed to be a circle more or kneed to be a circle more or kne corresponding with the axial bolt, the one being fixed in position and the other adjustable of means of the screws S S, to admit of adjusting the parts together to prevent looseness and noise, and to reduce and regulate the friction, substantially as and for the purpose herein set forth.

No. 1,368.—W. L. FISH, of Newark, N. J.—Improved Lamp Chimney.—Patented June

17, 1862; reissued December 23, 1862.

Claim.—The use in connexion with oil lamps of ordinary construction and operation of heating vessels containing a central flue so shaped as to form the chimney of said lamp, salstantially as herein shown and described, whereby the same lamp may be used for bed

illuminating and heating purposes or for either.

Second, in oil lamps of ordinary construction and in connexion with the heating rescible before referred to, the use of a bulb or its equivalent device for the intermediate support

said vessel by the lamp, substantially as herein shown and described.

Third, in combination with the said heating vessel and bulb, when the latter is maked an opaque material, the use of a window or of windows made of a transparent material ix the transmission of light through it, substantially as and for the purposes set forth.

EXTENSIONS.

No. 5,840.—DAVID DICK, of Meadville, Pa.—Improvement in Presses.—Patent dire-

October 10, 1848.

Claim.—The combination of two eccentric sectors having their bearings upon edge: 10 set forth above, with a roller placed between them whose axis has free play, all in the manner and for the purpose above set forth.

No. 5,966.—EPHRAIM MORRIS, of New York, N. Y.—Improved Scoop and Element. Patent dated December 5, 1848.

Claim.—The application of the two-part scoop g g, at the lower end of the frame s a comp jointly with the arrangement described and shown, by which the toggle-joint arms had he close the scoops to load when acted on by the rope or chain 10, which afterward raises the

scoops and load, and through which arrangement the same parts open the scoop to discharge the load, when acted on the toggle-joint arms through the shafts b and c, and drums c c and d, substantially in the manner hereinbefore described and shown.

No. 5,759.—Josiah Kirby, of Cincinnati, Ohio.—Improvement in Machines for Cutting

Bungs.—Patent dated September 12, 1848.

Claim.—The application to making plugs for covering the heads of screws, nails, bolts, &c., used in ship-building and other work, and plugs and bungs for barrels, of a cutter or hollow chisel made so as to fit into a mandrel by screw or otherwise, and bored out of the mouth at any given size, straight up far enough for the depth of a plug or bung, or to a given distance, then tapering into the centre so as to point the plug by compressing the end of the wood, a hole being bored through the whole length of the cutter so as to admit a rod through to drive out the plug when cut.

Also, the application to making plugs and bungs of the combination of the mandrel, cutter,

driving-rod and separator, as described in this specification, drawings, and model.

No. 5,958.—HENRY RUTTAN, of Cobourg, Canada West.—For Method of Warming and Ventilating Buildings.—Patent dated December 5, 1848; reissued August 14, 1855; addi-

tional improvement November 6, 1855.

Claim.—The mode of warming and ventilating buildings, the same consisting of introducing the air from without at some point sufficiently above the ground to get a pure air, and sufficiently low down to get clear of smoke; said air so to be introduced, being conducted under the floor of the building and directly under the furnace or stove, for the purpose of supplying air to be warmed for distribution, and after being thus warmed raising in a central or otherwise convenient apartment or passage, and thence carried into the various rooms by openings in the walls at the upper part or near the ceilings, without the aid of pipes, and thence downwards through suitable openings in the lower part of the room, and thence outwards through the various channels provided, connected with the foul-air flue or chimney.

Also, not simply introducing warm air at the top of a room and discharging it at the bottom. but only this when effected in the manner substantially as described, and this when applied

to buildings or apartment of any known description.

Also, in the air-warming furnace the arrangement of the radiating pipes or flues, in combination with the fire chamber, situated within or between them, in the manner above set forth, and in combination with the elevated air chamber and flues.

Also, the arrangement of the opening for admitting heated air above the fire to complete

the combustion, as herein set forth.

Also, the mode as herein described of constructing the grate, viz: of raising one or more eylindrical grates above the grate floor, said grate floor being cupped or covered in such a manner as to protect the vertical bars from the fuel, substantially in the manner set forth. It is understood that the raised grate may vary in form, so that the principle of action shall

Also, the mode of conducting the air into the pure-air shafts, whatever may be the direction of the wind, viz: by placing the swinging valve or shutter at the mouth of said shafts, sub-

stantially in the manner set forth.

No. 5,509.—Paulina Smith, Mortimer Smith, and Jane Smith, (by her Gaurdian, IRA TOMS,) heirs-at-law of AARON SMITH, (deceased,) late of Bloomfield, Mich.-Improvement in Grain Separators.—Patented April 11, 1848.

Claim.—First, the revolving rake, constructed and operating as described for shaking up

and separating the straw and the grain, and carrying the straw through the machine,

Second, the motion of the screen in combination with that of the rake, its motion being pendulous and in reverse direction to that of the rake, as described.

No. 5,459.—ROBERT HILLSON, of Albany, N. Y.—Improvement in Hot-air Furnaces.—

Patented February 29, 1848.

Claim.—First, the invention of a grate with a hemispherical or conical projection or boss rising upward in the centre thereof; the part of the grate outside of said boss being flat, as an improvement upon former grates, which are either flat or hemispherical, or hemicylindrical, both the flat part and the projecting part of the grate being grated.

Second, the use of the circular rim which rests upon a circular opening in the bed plate

and moves circularly thereon, and upon which the grate hangs by pivots resting on sockets in the rim, as above described, as an improvement upon the former mode by which the grate

rested by its sockets immediately on the bed plate.

Third, the manner described of dumping the grate by means of the cross-bars and handles, and the ways or projections for the cross-bars to move upon, the grate being suspended in

the manner set forth.

Fourth, the separate air chamber marked A, Fig. 1, constructed against the side of the lower cylinder, which may be extended to the top of the upper cylinder, for the purpose of heating an adjoining room, as described.

Fifth, the connecting of the part of the furnace below the fire, by means of a continuous air passage and pipe, with the room to be heated, so as to draw from that room solely the air for the support of the fire, for the purpose of creating a draught into that room of the lot air

from the furnace, as described.

Sixth, there is not claimed the cylindrical box or drum called the hot-air circular, and represented in Fig. 5, nor the smoke circular represented in Fig. 6; but the combination of this smoke circular with this cylindrical box or drum, in the manner and for the purpose de-

No. 5,522.—LEWIS MOORE, of Ypsilanti, Mich.—Improvement in Seed Planters.—Puented April 18, 1848.

Claim.—First, the particular combination and arrangement of the levers C, round P, bar C'*, journals p, with the hopper B, frame A, and notched supports g, for moving the hopper and sowing cylinders in the arc of a circle, for the purpose set forth.

Second, the combination of segmental slotted box plates F', containing the bearing of the cylinder axles with the hopper, arranged and operated in the manner and for the purpose

set forth.

Third, the manner of attaching the tubular drills L to the forked rods or bars K by the means of the wood and iron pins q r and flanges or wings s, as described, and for the pu-

pose set forth.

Fourth, the combination of the chains O with the tubes L and bar C' of the hopper framby which the tubes are raised or lowered simultaneously with turning the hopper onits axis.

No. 5,529.—John Hall, executor of Samuel Hall, deceased, late of Pittsburg, Pa-

Improvement in Ploughs .- Patented April 25, 1848.

Claim.—First, the manner of securing the beam to the body of the plough by means of the curved termination of the rear end of the beam, the socket p, between the mould born and land side, the ear g projecting from the mould board, with the slot J in the same, at the screw bolt h, the whole combined and operating substantially in the manner and for the purpose set forth.

Second, in combination with the foregoing described method of confining the beam to the body of the plough, the manner of giving a lateral adjustment to the front end of the beam

by means of the wedge e, substantially as set forth.

Third, in combination with the method of securing the beam to the body of the plough the manner of combining the handles with the beam by means of the projecting arm s, the aperture W, and slot s, in the same, and the screw bolt i i, combined and operating will the front end of the beam, substantially as set forth.

Fourth, the manner of forming and uniting the wrought share with the point and catter. by the combination of riveting and welding, substantially in the manner and for the pur-

pose set forth.

No. 5,631.—Asa Whitney, of Philadelphia, Pa.—Improvement in Annealing and Cooling

Cast-iron Car Wheels .- Patented April 25, 1848.

Claim.—The process of prolonging the time of cooling, in connexion with annealing milroad wheels in the manner described, that is to say, the taking them from the moulds in which they are cast before they have become so much cooled as to produce such inherent strain on any part as to impair its ultimate strength, and immediately after being thus taken from the moulds, depositing them in a previously heated furnace or chamber, so constructed of such materials and subject to such control that the temperature of all parts of the wheels deposited therein may be raised to the same point, (say a little below that at which fusion commences.) when they are allowed to cool so fast and no faster than is necessary for every part of each wheel to cool and shrink simultaneously together, and no one part before another.

No. 5,536.—CHARLES GOODYEAR, Jr., of New Haven, Conn., executor of CHARLES GOODYEAR, deceased, late of New Haven, Conn.—Improvement in Making Helles Articles

of India-rubber.—Patented April 25, 1848.

Claim.—The described process of making hollow spheres, various hollow toys, or other hollow articles of caoutchouc, the same consisting in the employment of a mould, and host and air, substantially in the manner and under the circumstances set forth.

No. 5,585.—EDWARD SPAIN, of Philadelphia, Pa.—Improvement in Charas.—Patraied

May 16, 1848.

Claim.—The giving the dasher the form represented and described, which, while it inparts a compound reciprocating and rotating motion to the cam as it is operated upon there by also enables a large-sized dasher to be passed whole through a comparatively seas. sized square aperture in the side of the barrel, as set forth.

No. 5,575.—A. T. SERRELL, of New York, N. Y.—Improvement in Machinery for Making Mouldings.—Patented May 16, 1848; reissued January 7, 1851; again reissued June 21, 1844.

Claim.—The application of the changeable feeding rollers c l, made as disks or flat rings, with serrated edges of varying angles and changeable or unequal diameters to feed in materials cut in varying or irregular sections, in combination with changeable rotary cutters and changeable standing planes, to produce wood mouldings of different sizes with smooth surfaces from material cut or prepared in varying or unequal sections for such purposes, the whole applied, constructed, and operating substantially in the manner and with the effects described and shown.

No. 5,876.—JARVIS HOWE, of Worcester, Mass.—Improvement in Boot-Trees.—Patented

October 24, 1848.

Claim.—The combination of the swivel and turning journal and its bearing with the frame boot tree and mechanism for distending the parts of the leg, substantially as set forth.

Also, the peculiar arrangement of the boot-tree upon its supporting stand, the same being represented in the drawing.

No. 5,918.—C. B. TURNER, of Buffalo, N. Y.—Improvement in Brakes for Railroad Cars.— Patented November 14, 1848.

Claim.—First, constructing the brake so as to act simultaneously on all the wheels of the car or cars of the train, on opposite sides, by the momentum and resistance of the several cars and the consequent contact of the bumpers, which actuate the rubbers, and by which the motion of the car is arrested; that is to say, the combination of the rubbers K, levers D, shafts C G, bars I, and rods O E, arranged and operated in the manner and for the purpose above set forth, or other modes substantially the same, or operated by manual power applied through the agency of the windlasses e, chains f, levers b, rods d, or other similar con-

Second, the manner of constructing the sliding spring bumper for operating the brake by the momentum and resistance of the cars, as described; that is to say, the combination of the slide P with the bumper X and spring S, constructed, arranged, and operating in the manner described, or other mode which may be substantially the same.

No. 5,935 .- JOHN LIGHTNER, of Roxbury, Mass. - Improvement in Bezes for the Journals

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of Railway Cars.—Patented November 21, 1648.

Claim.—The movable plate K, and aperture S, made through the front of the box, in combination with one another and the composition bearing and enclosing case, and made to operate substantially as above specified.

DESIGNS.

No. 1,508.—E. J. CRIDGE, of Troy, N. Y.—Design for Stove Plates.—Patent dated January 7, 1862.

Claim.—The configuration and ornament thereon, as set forth.

No. 1,509.—Robert Ham, of Troy, N. Y., assignor to Smith, Sheldon & Co., of the same place.—Design for a Cook Stove.—Patent dated January 7, 1862. Claim.—A cook stove, ornamented as described.

No. 1,510.—LUTHER W. HARWOOD, of Troy, N. Y., assignor to Philo P. STEWART, of the same place. - Design for Parlor Store Plates. - Patent dated January 7, 1862. Claim.—A design for parlor stove plates, having the ornamental features as described.

No. 1,511.—David Hathaway, of Troy, N. Y., assignor to Fuller, Warren & Co., of the same place. - Design for Cook Store Plates. - Patent dated January 7, 1862. Claim.—Cook stove plates ornamented as described.

No. 1,512.—DAVID HATHAWAY, of Troy, N. Y., assignor to Fuller, Warren & Co. of the same place.—Lesign for Plates of an Elevated Oven Cooking Stove.—Patent dated January 7, 1862.

Claim.—Elevated oven cooking plates, shaped and ornamented as described.

No. 1,513.—THOMAS H. WOOD, HENRY S. HUBBELL, and ALFRED S. HUBBELL, of Utica, N. Y .- Design for Cast Iron Tops and Bottoms for Parlor Stoves .- Patent dated January 7, 1862. Claim.—The general design and configuration as represented.

No. 1,514. -THOMAS H. WOOD, of Utica, N. Y., and HENRY S. and ALFRED S. HUE-BELL, of Buffalo, N. Y.—Design for a Cooking Store.—Patent dated January 7, 1862. Claim.—The general design and configuration ds represented.

- No. 1,515.—THOMAS H. WOOD, of Utica, N. Y., and HENRY S. and ALFRED S. HUBBELL, of Buffalo, N. Y.—Design for a Cooking Stove.—Patent dated January 7, 1862.

 Claim.—The general design and configuration as represented.
- No. 1,516.—James Williams, of Philadelphia, Pa., assignor to L. M. Williams & Co., of the same place.—Design for a Trade Mark.—Patent dated January 7, 1862.

 Claim.—The trade mark having the figure and letters as represented.
- No. 1,517.—Stephen D. Arnold, of New Britain, Conn., assignor to P. & F. Corbix. of the same place.—Design for a Lift or Handle.—Patent dated January 21, 1862.

 Claim.—The combination of the handle a, with the pendant c, to produce a rich and
- Claim.—The combination of the handle a, with the pendant c, to produce a rich and highly ornamental design or pattern for a lift or handle, substantially as and for the purpose described.
- No. 1,518.—John B. Earnshaw, of Cincinnati, Ohio.—Design for a Monument.—Patent dated January 21, 1862.

 Claim.—The monumental design as represented.
- No. 1,519.—ELEMIR J. NEY, of Lowell, Mass., assignor to the LOWELL MANUFACTURING COMPANY.—Design for a New Pattern for Carpets.—Patent dated January 21, 1852.

 Claim.—Design or pattern for carpets, or other fabrics, as set forth.
- No. 1,520.—ELEMIR J. NEY, of Lowell, Mass., assignor to the LOWELL MANUFACTURING COMPANY.—Design for a New Pattern for Carpets.—Patent dated January 21, 1962.

 Claim.—Design or pattern for carpets, or other fabrics, as set forth.
- No. 1,521.—John Dean and Samuel P. Emerson, of Worcester, Mass.—Design for Daguerreotype and Photograph Preserver.—Patent dated February 4, 1862.

 Claim.—The ornamental design for a Daguerreotype and Photograph Preserver, substantially as described.
- No. 1,522.—SIMEON HAYES, of Prattsburg, N. H.—Design for Trellis Frame.—Pater: dated February 4, 1862.
 - Claim.—The general design and configuration described, for a plant-supporting trellis.
- No. 1,523.—CHARLES J. SHEPARD, of New York. N. Y.—Design for a Stone.—Patent dated February 4, 1862.

 Claim.—The peculiar form and figure described and set forth as the design for a stove.
- No. 1,524.—John Eiberiveiser and Edward Kettler, of Cincinnati, Ohio.—Design for a Stone.—Patent dated February 11, 1862.
- Claim.—The design of a parlor or office stove, substantially as represented and described.
- No. 1,526.—HENRY G. THOMPSON, of New York, N. Y., assignor to the HARTFORD CARPET COMPANY.—Design for a Pattern for Carpets.—Patent dated February 11, 1862.

 Claim.—The configuration of the design, when made by being inwrought into two-ply ingrain or other carpeting, in the form similar to the drawings.
- No. 1,525.—HENRY G. THOMPSON, of New York, N. Y., assignor to the HARTFORD CARPET COMPANY.—Design for a Pattern for Carpets.—Patent dated February 11, 1862.

 Claim.—The configuration of the design, when made by being inwrought into two-ply ingrain, or other carpeting, in the form similar to the drawings.
- No. 1,527.—HENRY G. THOMPSON, of New York, N. Y., assignor to the HARTFORD CARPET COMPANY.—Design for a Pattern for Carpets.—Patent dated February 11, 182.

 Claim.—The configuration of the design, when made by being inwrought into two-ply ingrain or other carpeting, in the form similar to the drawings.
- No. 1,528.—HENRY G. THOMSON, of New York, N. Y., assignor to the HARTFORD CARPET COMPANY.—Design for a Pattern for Carpets.—Patent dated February 11, 1862.

 Claim.—The configuration of the design, when made by being inwrought into two-ply ingrain or other carpeting, in the form similar to the drawings.
- No. 1,529.—HENRY G. THOMPSON, of New York, N. Y., assignor to the HARTFORD CARPET COMPANY.—Design for a Pattern for Carpets.—Patent dated February 11, 1862.

 Claim.—The configuration of the design, when made by being inwrought into two-ply ingrain or other carpeting, in the form similar to the drawings.
- No. 1,530.—HENRY G. THOMPSON, of New York, N. Y., assignor to the HARTFORD CARPET COMPANY.—Design for a Pattern for Carpets.—Patent dated February 11, 1862.

 Claim.—The configuration of the design, when made by being inwrought into two-ply ingrain or other carpeting, in the form similar to the drawings.

- No. 1,531.—HENRY G. THOMPSON, of New York, N. Y., assignor to the HARTFORD CARPET COMPANY.—Design for a Pattern for Carpets.—Patent dated February 11, 1862.

 Claim.—The configuration of the design, when made by being inwrought into three-ply ingrain
- or other carpeting, in the form similar to the drawings.
- No. 1,532.—HENRY G. THOMPSON, of New York, N. Y., assignor to the HARTFORD CARPET COMPANY.—Design for a Pattern for Carpets.—Patent dated February 11, 1862.

 Claim.—The configuration of the design, when made by being inwrought into three-ply ingrain
- or other carpeting, in the form similar to the drawings.
- No. 1,533.—HENRY G. THOMPSON, of New York, N. Y., assignor to the HARTFORD CAR-PET COMPANY.—Design for a Pattern for Carpets.—Patent dated February 11, 1862.
- Claim.—The configuration of the design, when made by being inwrought into three-ply ingrain or other carpeting, in the form similar to the drawings.
- No. 1,534.—HENRY G. THOMPSON, of New York, N. Y., assignor to the HARTFORD CAR-PET COMPANY.—Design for a Pattern for Carpets.—Patent dated February 11, 1862.
- Claim.—The configuration of the design, when made by being inwrought into three-ply ingrain or other carpeting, in the form similar to the drawings.
- No. 1,535.—HENRY G. THOMPSON, of New York, N. Y., assignor to the HARTFORD CAR-PET COMPANY.—Design for a Pattern for Carpets.—Patent dated February 11, 1862. Claim.—The configuration of the design, when made by being inwrought into three-ply
- ingrain or other carpeting, in the form similar to the drawings.
- No. 1,536.—HENRY G. THOMPSON, of New York, N. Y., assignor to the HARTFORD CAR-
- PET COMPANY.—Design for a Pattern for Carpets.—Patent dated February 11, 1862.

 Claim.—The configuration of the design, when made by being inwrought into three-ply ingrain or other carpeting, in the form similar to the drawings.
- No. 1,537.—HENRY G. THOMPSON, of New York, N. Y., assignor to the HARTFORD CAR-PET COMPANY.—Design for a Pattern for Carpets.—Patent dated February 11, 1862. Claim.—The configuration of the design, when made by being inwrought into three-ply
- ingrain or other carpeting, in the form similar to the drawings.
- No. 1,538.—P. H. DRAKE, of Binghamton, N. Y.—Design for a Bottle.—Patent dated February 18, 1862.
- Claim.—The general configuration of the parts described to represent a log cabin or cottage and constitute a new and original design for a bottle.
- No. 1,539.—JABEZ W. HAYES, of Newark, N. J.—Design for a Trade-mark for Sword Blades.—Patent dated February 18, 1862.
- Claim. -The ornamental design or trade-mark, the same comprising the head of Washington impressed on or in the sword blade, as described.
- No. 1,540.—VICTOR MEYER, of New York, N. Y., assignor to ALDEN SAMPSON & Sons, of Manchester, Me.—Design for a Pattern for Floor Oil Cloths, Carpets, and other Fabrics.—Patent dated February 18, 1862.
- Claim.—The design of whatever colors in kind or number, or in whatever contrasts or blending of colors or of light and shade.
- No. 1,541.—George B. Owens, of New York, N. Y.—Design for a Clock Case.—Patent dated February 18, 1862.
- Claim.—The general configuration of the parts arranged and described to form a new and original design for a clock case.
- No. 1,542.—ELEMIR J. NEY, of Lowell, Mass., assignor to the LOWELL MANUFACTURING COMPANY.—Design for a Carpet Pattern.—Patent dated February 25, 1862. Claim.—The design or pattern for carpets or other fabrics set forth.
- No. 1,543.—ELEMIR J. NEY, of Lowell, Mass., assignor to the LOWELL MANUFACTURING COMPANY.—Design for a Carpet Pattern.—Patent dated February 25, 1862. Claim.—The design or pattern for carpets or other fabrics set forth.
- No. 1,544.—ELEMIR J. NEY, of Lowell, Mass., assignor to the LOWELL MANUFACTURING COMPANY.—Design for a Carpet Pattern.—Patent dated February 25, 1862. Claim .- The design or pattern for carpets or other fabrics set forth.
- No. 1,545.—ELEMIR J. NEY, of Lowell, Mass., assignor to the Lowell Manufacturing COMPANY.—Design for a Carpet Pattern.—Patent dated February 25, 1862. Claim.—The design or pattern for carvets or other fabrics set forth

No. 1,546.—ELEMIR J. NEY, of Lowell, Mass., assignor to the LOWELL MANUFACTURING COMPANY.—Design for a Carpet Pattern.—Patent dated February 25, 1862.

Claim.—The design or pattern for carpets or other fabrics set forth.

No. 1,547.—ISAAC B. WOODRUFF, of Winchester, Conn.—Design for a Clock Case.—Patent dated February 25, 1862.

Claim.—The design for a clock case C, the base A of which joins the body B, by an inverted ovolo or quadrant a, as and for the purpose described.

Also, the use of an entire gilt frame D, in combination with a dark-colored case C, and locked by a spring knob e, as and for the purpose specified.

No. 1,548.—HENRY HEBBARD, of New York, N. Y.—Design for Spoon or Fork Handles.—Patent dated March 4, 1862.

Claim.—The application and use of the design described, for ornamenting the fronts and backs of the handles of spoons, forks, and other articles of table ware.

No. 1.549.—JOHN J. MARCY, of Meriden, Conn., assignor to EDWARD MILLER, of the

same place.—Design for a Lantern.—Patent dated March 18, 1862.

Claim.—The general configuration of the parts described to form a new and original design for a combined hand lamp and lantern.

No. 1,550.—ELIMER J. NEY, of Lowell, Mass., assignor to the LOWELL MANUPACTURING COMPANY.—Design for a Carpet Pattern.—Patent dated March 18, 1862.

Claim.—The design or pattern for carpets or other fabrics set forth.

No. 1,551.—ELEMIR J. NEY, of Lowell, Mass., assignor to the LOWELL MANUPACTURING COMPANY.—Design for a Carpet Pattern.—Patent dated March 18, 1862.

Claim.—The design or pattern for carpets or other fabrics set forth.

No. 1,552.—ELEMIR J. NEY, of Lowell, Mass., assignor to the LOWELL MANUFACTURING COMPANY.—Design for Carpet Pattern.—Patent dated March 18, 1862.

Claim.—The design or pattern for carpets or other fabrics set forth.

No. 1,553.—ELEMIR J. NEY, of Lowell, Mass., assignor to the LOWELL MANUFACTURING COMPANY.—Design for a Carpet Pattern.—Patent dated March 18, 1862.

Claim.—The design or pattern for a carpet or other fabrics set forth.

No. 1,554.—ELEMIR J. NEY, of Lowell, Mass., assignor to the LOWELL MANUFACTURING COMPANY.—Design for a Carpet Pattern.—Patent dated March 18, 1862.

Claim.—The design or pattern for a carpet or other fabrics set forth.

No. 1,555.—ELEMIR J. NEY, of Lowell, Mass., assignor to the LOWELL MANUFACTURING COMPANY.—Design for a Carpet Pattern.—Patent dated March 18, 1862.

Claim.—The design or pattern for carpets or other fabrics set forth.

No. 1,556.—ELEMIR J. NEY, of Lowell, Mass., assignor to the LOWELL MANUPACTURING COMPANY.—Design for a Carpet Pattern.—Patent dated March 25, 1862.

Claim.—The design or pattern for carpets or other fabrics set forth.

No. 1,557.—WILLIAM W. STEVENS, of Portland, Maine, assignor to NATHANIEL P. REW-ARDSON & Co., of the same place.—Design for a Cooking Stove.—Patent dated March 25. 1869.

Claim.—The configuration and ornaments described and shown in the drawings as a design for a cooking stove.

No. 1,558.—John Rogers, of New York, N. Y.—Design for a Group of Figures.—Patent dated April 1, 1862.

Claim.—The design for a group of statuary as described and shown.

No. 1,559.—John Rogens, of New York, N. Y.—Design for a Group of Figures.—Paten: dated April 1, 1862.

Claim.—The design for a group of statuary as described and shown.

No. 1,560.—J. B. SARGENT, of New Britain, Conn.—Design for Coat and Hat Hooks.—Patent dated April 1, 1862.

Claim.—A new design for a coat and hat hook, having its bracket ornamented by a leaf A. as described.

No. 1,561.—WALTER W. STANARD, of Buffalo, N. Y., assignor to JEWETT & ROOT. et the same place.—Design for Stove Plates.—Patent dated April 1, 1862.

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Claim.—The disposition and arrangement of the ornamental devices for the decoration of the plates of a stove, as described and represented.

No. 1,562.—George Crompton, of Worcester, Mass.—Design for Top-Rail of Weavers' Looms.—Patent dated April 8, 1862.

Claim. - The configuration and ornamental design of top-rail for looms, as shown.

No. 1,563.—A. C. BARSTOW, of Providence, R. I.—Design for Base for Parler Stove.— Patent dated April 15, 1862.

Claim.—The new design for base for parlor stove, entitled the "Victor Gas Burner," having the general ornamental form and configuration as described and represented.

No. 1,564.—CALEB W. PALMER, of Troy, N. Y .- Design for a Cooking Stove .- Patent dated April 15, 1862.

Claim.—An elevated oven cooking stove, ornamented as described.

No. 1,565.—WALTER W. STANARD, of Buffalo, N. Y., assignor to SHERMAN S. JEWETT and FRANCIS H. ROOT, of the same place. - Design for Cooking Stores .- Patent dated April 15, 1862.

Claim.-The described ornamental devices for the decoration and embellishment of the plates of a cooking stove, arranged and combined as represented.

No. 1,566.—WALTER W. STANARD, of Buffalo, N. Y., assignor to SHERMAN S. JEWETT and FRANCIS H. ROOT, of the same place .- Design for Cooking Stoves .- Patent dated April 15, 1862.

Claim.—The combination and arrangement of the ornamental devices for the decoration of the plates of a cooking stove, described and represented.

No. 1,567.—W. H. COVE, of New York, N. Y., assignor to Himself and A. LORENZ, of the same place.—Design for a Show Case.—Patent dated April 22, 1862.

Claim.—The base A, consisting of a plinth a, cavetto b, inclined flat member c, torus d, and ovolo e, as shown and described. Also, the pillars C, with four sides g g' f f', connecting with each other, as shown and described.

Also, the octagonal bars A of the top frame D.

No. 1,568.—CHARLES H. FROST, of Peekskill, N. Y.—Design for a Cooking Stove or Range.-Patent dated April 29, 1862. Claim.—The combination of mouldings, as set forth.

No. 1,569.—WILLIAM H. GREEN and P. J. CLARK, of Meriden, Conn., assignors to S S. CLARK, of the same place.—Design for a Chandelier.—Patent dated April 29, 1862.

Claim.—The general configuration of the central part B, lamp circles or holders D D, and cap E, as shown and described, to form a new and original design for parts pertaining to a chandelier.

No. 1,570.—NATHAN P. MAKER, of Pawtucket, R. I.—Design for a Crucifix.—Patent dated April 29, 1862.

Claim. -A cross A, with flaring edges a, and having its arms b c d e proportioned as described, with the body B of Christ suspended from the same, and with the subscription f. all as specified.

No. 1,571.-J. B. SARGENT, of New Britain, Conn.-Design for Coffin Handles.-Patent dated April 29, 1862.

Claim.—The wreath a, with acorns b, shown and described. Also, in combination with the wreath a, the spherical centre plate C. Also, the acorns c, in combination with the wreath a and handle B. Also, the leaves d and c, with acorns f on the handle B.

No. 1,572.—JOHN W. BURT, of New York, N. Y.—Design for an Anklet.—Patent dated May 6, 1862.

Claim.—The two ogees s on the upper edge of an anklet A, and the two ogees h on its lower edge, and also the peak g formed in the manner shown and described.

No. 1,573.—GEORGE B. OWERS, of New York, N. Y.—Design for a Clock Case.—Patent dated May 6, 1862.

Claim.—The general configuration of the parts shown and described, to form a new and

original design for a clock case.

No. 1,574.—WILLIAM G. PHILIPS, of Newport, Cal.—Design for an Arm Chair.—Patent

dated May 6, 1862.

Claim.—The general configuration of the parts shown and described, to form a new and

No. 1,575.—HENRY TERHUNE, of New York, N. Y .- Design for a Clock Case. - Patent

dated May 6, 1862.

Claim.—The general configuration of the parts shown and described, to form a new and

No. 1,576.—HENRY A. FOWLER, of Afton, N. Y.—Design for a Hame Fastening.—Patent duted May 13, 1862.

Claim.—The ornamental design for a hame fastening, as shown and described.

No. 1,577.—DAVID FOYER, of Dover, N. H., assignor to ABRAHAM FOLSOM & Co., of Boston, Mass.—Design for a Floor-cloth Pattern.—Patent dated May 13, 1862. Claim.—The said design, pattern, or print, as my invention or production.

No. 1,578.—FREDERICK S. OTIS, of Brooklyn, N. Y.—Design for a Clock Case Front.— Patent dated May 13, 1862.

Claim.—The columns A A, arranged as described; the spiral wreaths g, blocks d, central arch C, and entablature F G H, all as shown and specified.

No. 1,579.—FREDERICK S. OTIS, of Brooklyn, N. Y .- Design for Clock Case Fronts .-Patent dated May 13, 1862.

Claim.—The arbor C, consisting of rose bushes f_i grape vines e_i roses f'_i , grape leaves e'_i , and grapes a'', arabesques a'' and a'' and roses a'', as shown and described. Also, the posts a'' are branches a'', flowers a'', and buds a', circular wreath a'', and arabesques a', all as specified.

No. 1,580.—John R. Wenett, of New York, N. Y.—Design for Spoons.—Patent dated May 13, 1862.

Claim.—The handle B of a spoon, when the same is ornamented with an antique metal C, as specified. Also, the bell i j k, bands f k, rosette d, bars c, and volutes a, all as shown and described.

No. 1,581.—CHARLES J. WOOLSON, of Cleveland, Ohio.—Design for Cooking Stores.— Patent dated May 13, 1862.

Claim.—The configuration and arrangement of said ornamental work, as designated and represented.

No. 1,582.—James Paterson, of Elizabeth, N. J., assignor to Deborah Powers, Al-BERT E. POWERS, and NATHANIEL POWERS, of Lansingburg, N. Y.—Design for Floor

Oil Cloths.—Patent dated May 20, 1862.

Claim.—The pattern or design for floor oil cloths, as set forth and described in the specification and shown upon the drawings.

No. 1,583.—HENRY G. THOMPSON, of New York, N. Y., assignor to the HARTFORD CARPET COMPANY.—Design for a Carpet Pattern.—Patent dated May 20, 1862.

Claim.—The configuration of the design, when made by being inwrought into two-ply ingrain or other carpeting, in the form similar to the drawings.

No. 1,584.—HENRY G. THOMPSON, of New York, N. Y., assignor to the HARTFORD CARPET COMPANY.—Design for a Carpet Pattern.—Patent dated May 20, 1862.

Claim.—The configuration of the design, when made by being inwrought into three-ply ingrain or other carpeting, in the form similar to the drawings.

No. 1,585.—HENRY G. THOMPSON, of New York, N. Y., assignor to the HARTFORD CARPET COMPANY.—Design for a Carpet Pattern.—Patent dated May 20, 1862.

Claim.—The configuration of the design, when made by being inwrought into three-ply ingrain or other carpeting, in the form similar to the drawings.

No. 1,586.—HENRY G. THOMPSON, of New York, N. Y., assignor to the HARTFORD CARPET COMPANY.—Design for a Curpet Pattern.—Patent dated May 20, 1862. Claim.—The configuration of the design, when made by being inwrought into two-ply

ingrain or other carpeting, in the form similar to the drawings.

No. 1,587.—HENRY G. THOMPSON, of New York, N. Y., assignor to the HARTFORD CARPET COMPANY.—Design for a Carpet Pattern.—Patent dated May 20, 1862.

Claim.—The configuration of the design, when made by being inwrought into three-ply ingrain or other carpeting, in the form similar to the drawings.

No. 1,588.—HENRY G. THOMPSON, of New York, N. Y., assignor to the HARTFORD CARPET COMPANY.—Design for a Carpet Pattern.—Patent dated May 20, 1862.

Claim.—The configuration of the design, when made by being inwrought into three-ply ingrain or other carpeting, in the form similar to the drawings.

No. 1,589.—HENRY G. THOMPSON, of New York, N. Y., assignor to the HARTFORD CARPET COMPANY.—Design for a Carpet Pattern.—Patent dated May 20, 1862.

Claim.—The configuration of the design, when made by being inwrought into two-ply

ingrain or other carpeting, in the form similar to the drawings.

No. 1,590.—HENRY G. THOMPSON, of New York, N. Y., assignor to the HARTFORD CARPET COMPANY.—Design for a Carpet Pattern.—Patent dated May 20, 1862.

Claim.—The configuration of the design, when made by being inwrought into three-ply ingrain or other carpeting, in the form similar to the drawings.

No. 1,591.—HENRY G. THOMPSON, of New York, N. Y., assignor to the HARTFORD CARPET COMPANY.—Design for a Carpet Pattern.—Patent dated May 20, 1862.

Claim.—The configuration of the design, when made by being inwrought into two-ply

ingrain or other carpeting, in the form similar to the drawings.

No. 1,592.—HENRY G. THOMPSON, of New York, N. Y., assignor to the HARTFORD CARPET COMPANY.—Design for a Carpet Pattern.—Patent dated May 20, 1862. Claim.—The configuration of the design, when made by being inwrought into two-ply

ingrain or other carpeting, in the form similar to the drawings.

No. 1,593.—HENRY G. THOMPSON, of New York, N. Y, assignor to the HARTFORD CARPET COMPANY.—Design for a Carpet Pattern.—Patent dated May 20, 1862.

Claim.—The configuration of the design, when made by being inwrought into three-ply

ingrain or other corpeting, in the form similar to the drawings.

No. 1,594.—HENRY G. THOMPSON. of New York, N. Y., assignor to the HARTFORD CARPET COMPANY.—Design for a Carpet Pattern.—Patent dated May 20, 1862.

Claim.—The configuration of the design, when made by being inwrought into two-ply

ingrain or other carpeting, in the form similar to the drawings.

No. 1,595.—John Rogers, of New York, N. Y.—Design for a Group of Statuary.—Patent dated May 27, 1862. Claim.—A design for a group of statuary, as described and shown.

No. 1,596.—JOHN ROGERS, of New York, N. Y.—Design for a Group of Statuary.—Patent dated May 27, 1862. Claim.—A design for a group of statuary, as described and shown.

No. 1,597.—John Rocers, of New York, N. Y.—Design for a Group of Statuary.— Patent dated May 27, 1862.

Claim.—A design for a group of statuary, as described and shown.

No. 1,598.—JOHN ROGERS, of New York, N. Y.—Design for a Group of Statuary.— Patent dated May 27, 1862. Claim.—A design for a group of statuary, as described and shown.

No. 1,599.—LEWIS I. COHEN, of New York, N. Y.—Design for the Backs of Playing Cards.—Patent dated May 27, 1862.

Claim .-- A design for the back of a playing card, the four national shields, arranged in the manner substantially as described.

No. 1,600.—A. C. BARSTOW, of Providence, R. I.—Design for Base and Front for Parlor Store.-Patent dated June 3, 1862.

Claim.-The new design for base and front for parlor stoves, having the general ornamental form and configurations as described and represented in the drawings.

No. 1,601.—Thomas G. Bering, of Philadelphia, Pa.—Design for a Metal Fence.—Patent dated June 3, 1862.

Claim.—The combination of the configurations and ornamentations specified, and shown

in the panel A, and as a design for the fixed panel of a fence, the combination of the contigurations and ornamentations specified and shown in the panel B, as a design for a fence.

No. 1,602.—J. G. FOLSOM and BAXTER D. WHITNEY, of Winchendon, Mass., assignors to J. G. FOLSOM aforesaid.—Design for Science Machine Frames.—Patent dated June 3,1862. Claim.—The design and configuration of the sewing machine frame as represented in the drawings and described.

No. 1,603.—Peter H. Jackson, of New York, N. Y.—Design for Metallic Frame for Fireplaces.—Patent dated June 3, 1862.

Claim.—The ornamental design of the metallic fireplace frames, as described and shown.

for oil-cloths.

No. 1,604.—G. L. KELTY, of New York, N. Y. Design for Tassel Tops.—Patent date! June 10, 1862.

Claim.—The ornamental acom-shaped top to the tassel, as represented.

No. 1,605.—WILLIAM L. McDowell, of Philadelphia, Pa.—Design far a Store.—Patent dated June 17, 1862.

Claim.—The raised panels a a a having the ornamented configurations thereon as described and the raised panels b b b having the ornamented configurations thereon, as described, as a design for a stove.

No. 1,606.—WILLIAM L. McDowell, of Philadelphia, Pa.—Design for a Store.—Para: dated June 17, 1862.

Claim.—The raised panels a a having the ornamented configurations thereon as described. and the raised panels b b b having the ornamented configurations thereon, as described, sea

No. 1,607.—John Martino and James Horton, of Philadelphia, Pa., assigness to STUART and PETERSON, of the same place.—Design for a Cook Store.—Patent dated June 17, 1862.

Claim.—The ornamental figures and forms represented by the drawing, and forming together an ornamental design for a cooking stove.

No. 1,608.—George B. Owen, of New York, N. Y — Design for a Clock Case.—Patent dated June 17, 1862.

Claim.—The general configuration of parts, as shown and described, to form a new and original design for a clock case.

No. 1,609.—John F. Rathbone, of Albany, N. Y.—Design for the Plates of a Cooking Stove.—Patent dated June 17, 1862.

Claim.—The combination and arrangement of figures and forms represented in the drawings, forming together the ornamental design for the plates of a cooking stove.

No. 1,610.—Garrettson Smith and Henry Brown, of Philadelphia, Pa., Smith. FRANCIS and WELLS, of Springville, Pa.—Design for plates of a Cooking Store.—Patent

dated July 1, 1862.

Claim.—The ornamental figures and forms represented by the drawing, the whole forming an ornamental design for the side, front, and back plates and the legs of a cooking stove.

No. 1,611.—GEORGE TAYLOR and JAMES LUSTY, of Amesbury, Mass.—Design for Shoes. -Patent dated July 1, 1862.

Claim.—A shoe A, ornamented with a flower a, stem b, bud c, and leaf d, all as specified on the front or too part; also the tendrils e, forming rings $h \, h^1 \, h^2 \, h^3$, and ornamented with flowers $ff^1f^2f^3$ and leaves $gg^1g^2g^3$ on the heel, all as shown and described.

No. 1,612.—WILLIAM BOCII, of Newtown, N. Y.—Design for a hand Fire-work.—Parent dated July 8, 1862.

Claim.—The general configuration of the parts in connexion with the national colors, red. white, and blue, disposed, as shown and described, to form a new and original design for a hand fire-work, termed the "Ladies' Union Tri-colored Fire-work Fan."

No. 1,613.—James Sharkey, of Brooklyn, N. Y.—Design for a Gateway and Fence for Burial Plots.—Patent dated July 29, 1862.

Claim.—The general configuration of the parts, as shown and described to form a new and original design for a gateway and fence for burial plots.

No. 1,614.—WILLIAM H. GREEN and P. J. CLARK, of West Meriden, Conn., assignore to S. S. CLARK, of the same place.—Design for a Lamp Bracket.—Patent dated August 5,

Claim.—The general configuration of the parts shown and described to form a new and original design for a lamp bracket.

No. 1,615.—SILAS A. HOLMES, of Brooklyn, N. Y.—Design for the Background of Photographic Pictures.—Patent dated August 5, 1862.

Claim.—The ornamental design of a floor in perspective upon the screen or background

for photographic pictures, as shown.

Also, the ornamental design of the vaulted room, as shown for the screen or background for photographic pictures.

No. 1,616.—James Hutchinson, of Lansingburg, N. Y., assignor to Jonathan E. Whipple, of the same place.—Design for Oil-cloths.—Patent dated August 5, 1862.

Claim.—The general configuration of the described parts to form a new and original design

- No. 1,617.—WILLIAM W. LYMAN, of West Meriden, Conn.—Design for a I ruit Can.—Patent dated August 5, 1862.
 - Claim.—The design for a fruit can, substantially as shown and described.
- No. 1,618.—ELEMIR J. NEY, of Lowell, Mass., assignor to the Lowell Manufacturing Company.—Design for Carpet Pattern.—Patent dated August 5, 1862.

 Claim.—The design or pattern for carpets or other fabrics set forth.
- No. 1,619.—ELEMIR J. NEY, of Lowell, Mass., assignor to the Lowell Manufacturing Company.—Design for Carpet Pattern.—Patent dated August 5, 1862.

 Claim.—The design or pattern for carpets or other fabrics set forth.
- No. 1,620.—WILLIAM W. ROBERTS, of Hartford, Conn.—Design for Burial Caskets.—Patent dated August 5, 1862.
- Claim.—The general design or pattern, substantially as represented in the drawings and description.
- No. 1,621.—WILLIAM H. ROBERTS, of Hartford, Conn.—Design for Burial Caskets.—Patent dated August 5, 1862.
 - Claim.—The design or pattern for a burial casket, substantially as illustrated and described.
- No. 1,622.—Garrettson Smith and Henry Brown, of Philadelphia, Pa., assignors to Cox, Whiteman & Cox, of the same place.—Design for the Plates of a Cook Store.—Patent dated August 5, 1862.
- Claim.—The ornamental figures and forms, represented in and by the drawing, and forming together an ornamental design for the plates of a cooking stove.
- No. 1,623.—RUSSELL WHEELER and STEPHEN A. BAILEY, of Utica, N. Y.—Design for a Parlor Store.—Patent dated August 5, 1862.

 Claim.—The form, ornaments, and design for a parlor stove, as described and represented.
- No. 1,624 .- STEPHEN D. ARNOLD, of New Britain, Conn. Design for Lifting Handle
- Plate.—Patent dated August 12, 1862.

 Claim.—The described ornamental design cast or struck up for a lifting handle plate, sub stantially as set forth.
- No. 1,625.—John W. Burt, of New York, N. Y.—Design for an Anklet.—Patent dated August 12, 1862.
- Claim.—An anklet having points a a' at the upper and points c c' at the lower edge, and fastened by a lacing extending up from the boot or gaiter through eyelets c, as shown and described.
- No. 1,626.—Thomas W. Evans, Philadelphia, Pa.-Desiga for a Trade-Mark.—Patent dated August 12, 1862.
 - Claim. A trade-mark containing the words "Hunt's Bloom of Roses," as described.
- No. 1,627.—JOHN GAULT, of Boston, Mass.—Design for Encasing Government Stamps.—Patent dated August 12, 1862.
- Claim.—A circular metallic case, to contain a postage or government stamp to be used for currency, the configuration of the open face plate being as described and represented.
- No. 1,628.—Constant Hesdra, of Brooklyn, N. Y., assignor to W. H. Core and A. Lorenz, of New York, N. Y.—Design for the Base of Show Cases.—Patent dated August 12, 1862
- Claim.—The base A of a show case B, the said base consisting of a plinth a, evolo b, ogee c, and inclined plane d, shown and described.
- No. 1.629.—HENRY G. TYER, of Andover, Mass.—Design for a Trade-Mark for Shoes.—Patent dated August 12, 1862.
 - Claim.—The design for a trade-mark for shoes, as shown and described.
- No. 1,630.—ELEMIR J. NEY, of Lowell, Mass., assignor to the LOWELL MANUFACTURING COMPANY.—Design for a Carpet Pattern.—Patent dated August 12, 1862.

 Claim.—The design or pattern for carpets or other fabrics set forth.
- No. 1,631.—ELEMIR J. NEY, of Lowell, Mass., assignor to the LOWELL MANUFACTURING COMPANY.—Design for a Carpet Pattern.

 Claim.—The design or pattern for carpets or other fabrics set forth.

- No. 1,632.—ELEMIR J. NEY, of Lowell, Mass., assignor to the LOWELL MANUFACTURING COMPANY.—Designs for a Carpet Pattern.—Patent dated August 12, 1832.

 Claim.—The design or pattern for carpets or other fabrics set forth.
- No. 1,633.—ELEMIR J. NEY, of Lowell, Mass., assignor to the LOWELL MANUFACTUR ING COMPANY.—Design for a Carpet Pattern.—Patent dated August 12, 1862.

 Claim.—The design or pattern for carpets or other fabrics set forth.
- No. 1,634.—ELEMIR J. NEY, of Lowell, Mass., assignor to the LOWELL MANUFACTURING COMPANY.—Design for a Carpet Pattern.—Patent dated August 12, 1862.

 Claims—The design or pattern for carpets or other fabrics set forth.
- No. 1,635.—ELEMIR J. NEY, of Lowell, Mass., assignor to the LOWELL MANUFACTURING COMPANY.—Design for a Carpet Pattern.—Patent dated August 12, 1862.

 Claim.—The design or pattern for carpets or other fabrics set forth.
- No. 1,636.—ELEMIR J. NEY, of Lowell, Mass., assignor to the LOWELL MANUFACTUR ING COMPANY.—Design for a Carpet Pattern.—Patent dated August 12, 1862.

 Claim.—The design or pattern for carpets or other fabrics set forth.
- No. 1,637.—ELEMIR J. NEY, of Lowell, Mass., assignor to the LOWELL MANUFACTURING COMPANY.—Designs for a Carpet Pattern.—Patent dated August 12, 1862.

 Claim.—The design or pattern for carpets or other fabrics set forth.
- No. 1,638.—ELEMIR J. NEY, of Lowell, Mass., assignor to the LOWELL MANUFACTURING COMPANY.—Design for a Carpet Pattern.—Patent dated August 12, 1862.

 Claim.—The design or pattern for carpets or other fabrics set forth.
- No. 1,639.—ELEMIR J. NEY, of Lowell, Mass., assignor to the LOWELL MANUPACTURING COMPANY.—Design for a Carpet Pattern.—Patent dated August 12, 1862.

 Claim.—The design or pattern for carpets or other fabrics set forth.
- No. 1,640.—ELEMIR J. NEY, of Lowell, Mass., assignor to the LOWELL MANUFACTURING COMPANY.—Design for a Carpet Pattern.—Patent dated August 12, 1862.

 Claim.—The design or pattern for carpets or other fabrics set forth.
- No. 1,641.—ELEMIR J. NEY, of Lowell, Mass., assignor to the LOWELL MANUFACTURING COMPANY.—Design for a Carpet Pattern.—Patent dated August 12, 1862.

 Claim.—The design or pattern for carpets or other fabrics set forth.
- No. 1,642.—ELEMIR J. NEY, of Lowell, Mass, assignor to the LOWELL MANUFACTURING COMPANY.—Design for a Carpet Pattern.—Patent dated August 12, 1862.

 Claim.—The design or pattern for carpets or other fabrics set forth.
- No. 1,643.—ELEMIR J. NEY, of Lowell, Mass., assignor to the LOWELL MANUPACTUR-ING COMPANY.—Design for a Carpet Pattern.—Patent dated August 12, 1862. Claim.—The design or pattern for carpets or other fabrics set forth.
- No. 1,644.—ELEMIR J. NEY, of Lowell, Mass., assignor to the LOWELL MANUFACTURING COMPANY.—Design for a Carpet Pattern.—Patent dated August 12, 1862.

 Claim.—The design or pattern for carpets or other fabrics set forth.
- No. 1,645.—ELEMIR J. NEY, of Lowell, Mass., assignor to the LOWELL MANUFACTURING COMPANY.—Design for a Carpet Pattern.—Patent dated August 12, 1862.

 Claim.—The design or pattern for carpets or other fabrics set forth.
- No. 1,646.—ELEMIR J. NEY, of Lowell, Mass., assignor to the LOWELL MANUFACTURING COMPANY.—Design for a Carpet Pattern.—Patent dated August 12, 1862.

 Claim.—The design or pattern for carpets or other fabrics set forth.
- No. 1,647.—ELEMIR J. NEY, of Lowell, Mass., assignor to the LOWELL MANUFACTUR-ING COMPANY.—Design for a Carpet Pattern.—Patent dated August 12, 1862. Claim.—The design or pattern for carpets or other fabrics set forth.
- No. 1,648.—ELEMIR J. NEY, of Lowell, Mass., assignor to the LOWELL MANUFACTURING COMPANY.—Design for a Carpet Pattern.—Patent dated August 12, 1862.

 Claim.—The design or pattern for carpets or other fabrics set forth.
- No. 1,649.—ELEMIR J. NEY, of Lowell, Mass., assignor to the LOWELL MANUFACTUR ING COMPANY.—Design for a Carpet Pattern.—Patent dated August 12, 1862.

 Claim.—The design or pattern for carpets or other fabrics set forth.

No. 1,650.—ELEMIR J. NEY, of Lowell, Mass., assignor to the LOWELL MANUFACTURING COMPANY.—Design for a Carpet Pattern.—Patent dated August 19, 1862.

Claim.—The design or pattern for carpets or other fabrics set forth.

No. 1,651.—G. I. Mix, of Wallingford, Conn.—Design for the Form of Spoon Shanks.—

Patent dated August 19, 1862.

Claim.—The design for the form of a spoon shank, which consists in having the convex claim.—The design for the form of a spoon shank, which consists in having the convex claim.—The design for the form of a spoon shank, which consists in having the convex claim.

No. 1,652.—MYER PHINEAS, of New York, N. Y.—Design for an Inkstand.—Patent dated August 19, 1862.

Claim.—The design for an inkstand, represented in the drawings.

No. 1,653.—SALATHIEL ELLIS, of Mantorville, Minn.—Design for a Medallion.—Patent dated August 26, 1862.

Claim.—The design for a medallion likeness, as described and represented.

No. 1,654.—WILLIAM L. WASHBURN, of Albany, N. Y.—Design for a Burial Case.— Patent dated September 2, 1862.

Claim.—The burial case, having the form described and illustrated in the drawings, when ornamented by the corners a a a a, panels b b b and c c, and moulding d.

No. 1,655.—Samuel H. Ransom, of Albany, N. Y.—Design for an Elevated Oven Cook Stove.—Patent dated September 9, 1862.

Claim.—The combination and arrangement of ornamented figures and forms represented in the drawings, forming together the ornamental design for an elevated oven cook stove.

No. 1,656.—Samuel W. Gibbs, of Albany, N. Y.—Design for the Plates of a Store.—Patent dated September 23, 1862.

Claim.—The design and configuration or combination of figures and forms of the different plates composing a parlor grate stove or "Franklin grate," described and shown.

No. 1,657.-F. H. GIBNEY, of New York, N. Y.—Design for a Spoon and Fork Handle.— Patent dated September 23, 1862.

Fatent dated september 23, 1802.

Claim.—The oval a, ornamented with ridges d d', groove e, and arabesque f on the upper, and with ridges m m', groove n, and curve o p on the under side; also, the shield b, ornamented on the upper side with border g and arabesque i, and on the under side with border g' and arabesque q; also the shaft c, ornamented on the upper side with a border k and arabesque l, and on the under side with ridges r r', pear-shaped border l, and arabesque l, all as arranged and shown to form a spoon or fork handle, as described.

No. 1,658.—WALTER S. HILL and SAMUEL T. REED, of New York, N. Y.—Design for a Cheese and Checker Board.—Patent dated September 23, 1862.

Claim.—A chess and checker board, having its squares provided with portraits, as shown and described, to form a new and original design for the same.

No. 1,659.—James R. Hyde, of Troy, N. Y.—Design for a Cook Stove.—Patent dated September 23, 1862.

Claim.—A cooking stove, having plates ornamented as described.

No. 1,660.—H. I. SEYMOUR, of Troy, N. Y.—Design for a Chair.—Patent dated September 23, 1862.

Claim.—The general configuration of the parts, as shown and described, to form a new and original design for a chair.

No. 1,661.—N. S. VEDDER and EZRA RIPLEY, of Troy, N. Y., assignor to N. S. VEDDER, aforesaid.—Design for the Plates of a Store.—Patent dated September 23, 1862.

Claim.—A stove plate or plates, having the surface thereof ornamented as described.

No. 1,662.—ELIAS INGRAHAM, of Bristol, Conn.—Design for a Clock Case.—Patent dated September 30, 1862.

Claim.—The design for a clock case, substantially as illustrated and described.

No. 1,663.—MATTHEW TOWNSEND, of Chelsea, Mass.—Design for Knit Shawls.—Patent dated October 14, 1862.

Claim.—The knit border, having raised or plaited lines or folds B B extending across it, as represented in the drawing.

No. 1,664.—George B. Owens, of New York, N. Y .- Design for a Clock Case .- Patent dated October 21, 1862.

- Claim.-The general configuration of the parts, as shown and described, to form a new and original design for a clock case.
- No. 1,665.—C. A. ROBINSON, of New York, N. Y.—Design for a Bottle.—Patent dated
- October 21, 1852.

 Claim.—The general configuration of the parts, shown and described, to form a new and original design for a bottle.
- No. 1,666.—ELEMIR J. NEY, of Lowell, Mass., assignor to the LOWELL MANUFACTURING COMPANY.—Design for a Carpet Pattern.—Patent dated November 11,1862. Claim.—The design or pattern for carpets or other fabrics set forth.
- No. 1,667.—ELEMIR J. NEY, of Lowell, Mass., assignor to the LOWELL MANUFACTURING COMPANY.—Design for a Carpet Pattern.—Patent dated November 11, 1862. Claim.—The design or pattern for carpets or other fabrics, set forth.
- No. 1,668.—ELEMIR J. NEY, of Lowell, Mass., assignor to the LOWELL MANUFACTURISE COMPANY.—Design for a Carpet Pattern.—Patent dated November 11, 1862. Claim.—The design or pattern for carpets or other fabrics set forth.
- No. 1,669.—ELEMIR J. NEY, of Lowell, Mass., assignor to the LOWELL MANUFACTURIS COMPANY.—Design for a Carpet Pattern.—Patent dated November 11, 1862. Claim.—The design or pattern for carpets or other fabrics set forth.
- No. 1,670.—ELEMIR J. NEY, of Lowell, Mass., assignor to the LOWELL MANUFACTURING COMPANY.—Design for a Carpet Pattern.—Patent dated November 11, 1862. Claim.—The design or pattern for carpets or other fabrics set forth.
- No. 1,671.—ELEMIR J. NEY, of Lowell, Mass., assignor to the LOWELL MANUFACTURING COMPANY.—Design for a Carpet Pattern.—Patent dated November 11, 1862.

 Claim.—The design or pattern for carpets or other fabrics, set forth.
- No. 1,672.—ELEMIR J. NEY, of Lowell, Mass., assignor to the LOWELL MANUFACTURING COMPANY.—Design for a Carpet Pattern.—Patent dated November 11, 1862. Claim.—The design or pattern for carpets or other fabrics, set forth.
- No. 1,673.—ELEMIR J. NEY, of Lowell, Mass., assignor to the LOWELL MANUPACTURING COMPANY.—Design for a Carpet Pattern.—Patent dated November 11, 1862. Claim.—The design or pattern for carpets or other fabrics, set forth.
- No. 1,674.—GEORGE B. OWENS, of New York, N. Y.—Design for a Clock Case.—Patent dated November 11, 1862.
- Ctaim.—The general configuration of the parts, as shown and described, to form a new and original design for a clock case.
- No. 1,675.—JOHN W. BURT, of New York, N. Y.—Design for an Anklet.—Patent dated December 9, 1862.
- Claim.—An anklet A, ornamented by buttons C and a seam B, representing false buttonholes d, connected by a zig-zag line e, as shown and described.
- No. 1,676.—JOHN B. CHARGOIS, of New York, N. Y .- Design for a Trade-Mark.—Patent dated December 9, 1862.
- Claim.—The design for trade-mark of "Chargois Elixir," composed of the several devices, inscriptions, and border represented in the drawings and described.
- No. 1,677.—DAVID FOYER, of Dover, N. H., assignor to Abraham Folsom & Son, of Buston, Mass. - Design for Floor Cloth Pattern. - Patent dated December 9, 1862. Claim.—The said design as my invention or production.
- No. 1,678.—HENRY S. and Alfred S. Hubbell, of Buffalo, N. Y.—Design for a Cook's Store.-Patent dated December 9, 1862.
 - Claim.—The general design or configuration represented in the drawings.
- No. 1,679.—HENRY S. and Alfred S. Hubbell, of Buffalo, N. Y.—Design for a Cook's Store.—Patent dated December 9, 1862.
 - Claim.—The general design or configuration represented in the drawings.
- No. 1,680.—HENRY S. and ALFRED S. HUBBELL, of Buffalo, N. Y.—Design for a Cook's Stove.—Patent dated December 9, 1862.
 - Claim.—The general design or configuration represented in the drawings.

No. 1,681.—N. E. Russell, of New York, N. Y.—Design for the Hundles of Tub'e Cut-lery.—Patent dated December 9, 1862.

Claim.—The configuration and application of the plates B to the handles of table cutlery, to form a new and original ornamentation or design for the same, as set forth.

No. 1,682.—John W. Schreißer, of New York, N. Y.—Design for a Lamp Chimney.—

Patent dated December 9, 1862.

Claim.—The general configuration of the parts, as shown and described, to form a new and original design for a lamp chimney.

No. 1,683.—HENRY G. THOMPSON, of New York, N. Y., assignor to the HARTFORD CAR-PET COMPAY.—Design for a Carpet Pattern.—Patent dated December 9, 1862.

Claim.—The configuration of the design, when made by being inwrought into three-ply ingrain or other carpeting, in the form similar to the drawings.

No. 1,684.—HENRY G. THOMPSON, of New York, N. Y., assignor to the HARTFORD CARPET COMPANY.—Design for a Carpet Pattern.—Patent dated December 9, 1862. Claim.—The configuration of the design, when made by being inwrought into three-ply

ingrain or other carpeting, in the form similar to the drawings.

No. 1,685.—HENRY G. THOMPSON, of New York, N. Y., assignor to the HARTFORD CAR-PET COMPANY.—Design for a Carpet Pattern.—Patent dated December 9, 1862.

Claim.—The configuration of the design, when made by being inwrought into three-ply ingrain or other carpeting, in the form similar to the drawings.

No. 1,686.—HENRY G. THOMPSON, of New York, N. Y., assignor to the HARTFORD CAR-PET COMPANY.—Design for a Carpet Pattern.—Patent dated December 9, 1852.

Claim.—The configuration of the design, when made by being inwrought into three-ply ingrain or other carpeting, in the form similar to the drawings.

No. 1,687.--HENRY G. THOMPSON, of New York, N. Y., assignor to the HARTFORD CAR* PET COMPANY — Design for a Carpet Puttern.—Patent dated December 9, 1862.

Claim.—The configuration of the design, when made by being inwrought into three-ply ingrain or other carpeting, in the form similar to the drawing.

No. 1,688.—HENRY G. THOMPSON, of New York, N. Y., assignor to the HARTFORD CAR-PET COMPANY.—Design for a Carpet Pattern.—Patent dated December 9, 1862.

Claim.—The configuration of the design, when made by being inwrought into two-ply

ingrain or other carpeting, in the form similar to the drawings.

No. 1,689.—HENRY G. THOMPSON, of New York, N. Y., assignor to the HARTFORD CAR-PET COMPANY.—Design for a Carpet Pattern —Patent dated December 9, 1862.

Claim.—The configuration of the design, when made by being inwrought into two-ply ingrain or other carpeting, in the form similar to the drawings.

No. 1,690.—HENRY G. THOMPSON, of New York, N. Y., assignor to the HARTFORD CAR-PET COMPANY.—Design for a Carpet Pattern.—Patent dated December 9, 1862.

Claim.—The configuration of the design, when made by being inwrought into three-ply ingrain or other carpeting, in the form similar to the drawings.

No. 1,691.—HENRY G. THOMPSON, of New York, N. Y., assignor to the HARTFORD CAR-PET COMPANY.—Design for a Carpet Pattern.—Patent dated December 9, 1862. Claim.—The configuration of the design, when made by being inwrought into two-ply

ingrain or other carpeting, in the form similar to the drawings.

No. 1,692.—HENRY G. THOMPSON, of New York, N. Y., assignor to the HARTFORD CAR-PET COMPANY.—Design for a Carpet Pattern.—Patent dated December 9, 1862.

Claim.—The configuration of the design, when made by being inwrought into three-ply ingrain or other carpeting, in the form similar to the drawings.

No. 1,693.—HENRY G. THOMPSON, of New York, N. Y., assignor to the HARTFORD CAR-

PET COMPANY.—Design for a Carpet Pattern.—Patent dated December 9, 1862.

Claim.—The configuration of the design, when made by being inwrought into three-ply ingrain or other carpeting, in the form similar to the drawings.

No. 1,694.—HENRY THOMPSON, of New York, N. Y., assignor to the HARTFORD CAR-PET COMPANY.—Design for a Carpet Pattern.—Patent dated December 9, 1862. Claim.—The configuration of the design, when made by being inwrought into two-ply ingrain or other carpeting, in the form similar to the drawings.

No. 1,695.—DAVID FOYER, of Dover, N. H., assignor to ABRAHAM FOLSOM & SON, of Boston, Mass.—Design for the Pattern of Floor Cloths, &c.—Patent dated December 16, 1862 Claim.—The design as described and substantially represented in the drawings.

No. 1,696.—Julius Hobzer, of Philadelphia, Pa., assignor to E. M. Manigle, of sauce place.—Design for a Stove Plate.—Patent dated December 16, 1862.

Claim.—The configurations described and specified, as an ornamental design for stove plates.

No. 1,697.—JOHN D. MARSHBANK, of Lancaster, Pa., assignor to Himself and WILLIAM McConkey, of same place.—Design for the Doors of a Cook Stove.—Patent dated December 16, 1862.

Claim.—The arrangement of the ornamental figures on the front, side panels, and doors as represented in the drawings, forming the ornamental design for the doors of a cook stove.

No. 1,698.—ELEMIR J. NEY, of Lowell, Mass., assignor to the LOWELL MANUFACTURING COMPANY.—Design for a Carpet Pattern.—Patent dated December 16, 1862.

Claim.—The design or pattern for carpets or other fabrics set forth.

No. 1,699.—ELEMIR J. NEY, of Lowell, Mass., assignor to the LOWELL MANUPACTURING COMPANY.—Design for a Carpet Pattern.—Patent dated December 16, 1862.

Claim.—The design or pattern for carpets or other fabrics set forth.

No. 1,700.—ELEMIR J. NEY, of Lowell, Mass., assignor to the LOWELL MANUFACTURING COMPANY.—Design for a Carpet Pattern.—Patent dated December 16, 1862.

Claim.—The design or pattern for carpets or other fabrics set forth.

No. 1,701.—WILLIAM F. WARBURTON, of Philadelphia, Pa.—Design for a Military Hat.—Patent dated December 16, 1862.

Claim.—The shape and configuration of the hat as represented in and by the figs. 1, 2, and 3 of the drawings.

No. 1,702.—JOHN C. NOBLES, of Rushford, N. Y.—Design for a Cane-head, Umbrelle-handle, or Sword-hilt.—Patent dated December 23, 1862.

Claim.—As a design for a cane-head, umbrella-handle, sword-hilt, and other similar purposes, the configuration or ornamentation set forth and explained.





